

# IEC 60601-1 Medical electrical equipment

Part 1: General requirements for basic safety and essential performance

Total number of pages .....: 197

CB Testing Laboratory .....: Victronic Technology Corporation.

Address...... 34th FI 130 Ln 235 Baoqiao Rd Xindian Dist New Taipei, 231

Taiwan.

Applicant's name .....: Onyx Healthcare Inc.

Address......: 2F., No.135, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City

231, Taiwan

**Test specification:** 

Standard...... 1 (2006) + CORR. 2 (2007)

EN 60601-1 : 2006

Test procedure .....: CB Scheme

Non-standard test

method....:

None

Test Report Form No. ...... 60601-1TRF\_A

Test Report Form Originator ......: Victronic Technology Corporation

Master TRF .....: 2011/11/29

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Test item description...... 18.5" Bedside Infotainment Touch Monitor

Trade Mark....::

onyx

or ONYX Healthcare Inc.

Manufacturer .....: Onyx Healthcare Inc.

2F., No.135, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City

231, Taiwan

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**Switching Power Adapter:** Ratings ....: (HITRON ELECTRONICS CORP, HEMG50-S120420-7) Input: 100-240Vac, 60/50Hz, 1.2-0.63A **Monitor:** Input rating: 12Vdc, 4.2A





















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Testing procedure and testing location:

Testing location/ address .......: Victronic Technology Corporation / 4th FI 130 Ln 235

Baoqiao Rd Xindian Dist New Taipei, 231 Taiwan.

Tested by (name + signature)..:

**Ella Chang** 

Approved by (+ signature) .....: **Pavin Tsai**  Ella Clang Pain Tair





















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## List of Attachments (including a total number of pages in each attachment):

- Photo Documentation (9 pages)
- Technical Documentation (4 pages)
- Manual (38 pages)

#### Summary of testing

#### Tests performed (name of test and test clause):

Power Input Test (4.11)

Humidity Preconditioning Treatment (5.7)

Legibility of Markings (7.1.2)

Durability of Marking Test (7.1.3)

Dielectric Voltage Withstand (8.8.3)

Ball Pressure (8.8.4.1)

Temperature Test (11)

Overflow, Spillage, Leakage, Cleaning, Sterilization and Disinfection, Harmful

Ingress of Liquids (11.6)

Interruption of Power Supply: (11.8)

Abnormal Operation and Single Fault Conditions (13)

Enclosure Mechanical Strength (15.3)

Drop Impact Test (15.3.4)

Mold Stress Relief Test (15.3.6)

Leakage Current Test (8.7)

Suspension Systems Without Mechanical Protective Devices: (9.8.5)

#### **Summary of compliance with National Differences**

List of countries addressed:

CA

CA = Canada

☐ The product fulfils the requirements of EN 60601-1:2006, CAN/CSAC22.2 No. 60601-1:08



Victronic Technology Corporation. / 4th FI 130 Ln 235 Baoqiao Rd Xindian Dist New Taipei, 231 Taiwan.





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### Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

# ONYX Healthcare Inc. ONYX-BE381DT-A1-1010



18.5" Bedside Touch Monitor.HDMI Input. Resistive Touch.Reading Light.Webcam. Smart Card Reader

For use only Power Supply: HiTRON (HEMG50-S120420-7)

Input: 100-240 VAC, 60/50Hz

Output: 12 V DC 4.2 A

Display Input Rating: 12 V DC 4.2 A



S/N: XXXXXXXX

MADE IN TAIWAN

2F,No.135,Lane235,Pao Chiao Rd.Hsin-Tien City,Taipei,Taiwan, ROC.

















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ed. 23 July, 20



	GENERAL INFORMATION	
	Test item particulars (see also Clause 6):	
	Classification of installation and use::	transportable / portable / stationary / mobile / fixed / permanently installed / hand-held
	Device type (component/sub-assembly/ equipment/ system):	Equipment
	Intended use (Including type of patient, application location):	As part of Monitor for use in the Medical System
	Mode of operation	Continuous / non continuous
	Supply connection:	internally powered /permanently installed / appliance coupler / non-detachable cord
	Accessories and detachable parts included:	Power adapter for HITRON ELECTRONICS CORP, HEMG50- S120420-7
	Other options include:	N/A
	Testing	
	Date of receipt of test item(s):	21 March, 2014
	Dates tests performed:	24 March, 2014 to 12 June, 2014
	Possible test case verdicts:	
	- test case does not apply to the test object:	N/A
<	- test object does meet the requirement:	Pass (P)
	- test object was not evaluated for the requirement:	N/E/ 7
	- test object does not meet the requirement:	Fail (F)
	Abbreviations used in the report:	
	- normal condition: N.C means of Operator protection: MOOP	- single fault condition: S.F.C means of Patient protection: MOPP
	"(see Attachment #)" refers to additional information appended "(see appended table)" refers to a table appended to the report. The tests results presented in this report relate only to the object. This report shall not be reproduced except in full without the write List of test equipment must be kept on file and available for reviated and analysis of the attachment.	et tested. itten approval of the testing laboratory. ew.
5	Throughout this report a ☐ comma / ☒ point is used as th	
-1	Manufacturer's Declaration per sub-clause 6.2.5 of IECEE 02	A ALIZ Z ==

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#### General product information:

A bedside monitor solution for ultimate patient services that boosts patient satisfaction and well-beings. 18.5 wide color TFT LCD touch monitor light weight and displays with 2048 x 2048 resolution. Moreover, they feature flexible I/O ports, such as two External USB2.0 on bottom I/O, two rear USB2.0 for connecting Host computer, one HDMI/VGA port and two speakers.

The power adapter source **HITRON ELECTRONICS CORP** and model **HEMG50-S120420-7** which intended to supply the equipment have been evaluated and certified by UL (Demko) according to IEC 60601-1(ed.3), IEC 60601-1(ed.3); am1 (Report no. 1311060003 and Certificate no. DK-37161-UL).

The maximum specified operational ambient temperature is +40°C.

Two MOPP (means of patient protection) are provide between primary circuit and secondary SIP/SOP, one MOPP (means of patient protection) are provided between secondary circuit and isolated protection at SIP/SOP circuit.

Touch Panel and Plastic Enclosure treat as Type B applied part.

Model Differences -

ONYX-BE381DT-xx-xxxx (where x is 0-9, A-Z, - or blank) is identical with each other except for model designation.



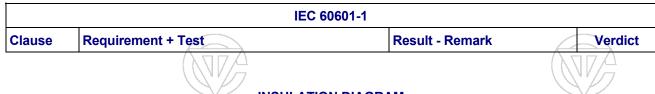


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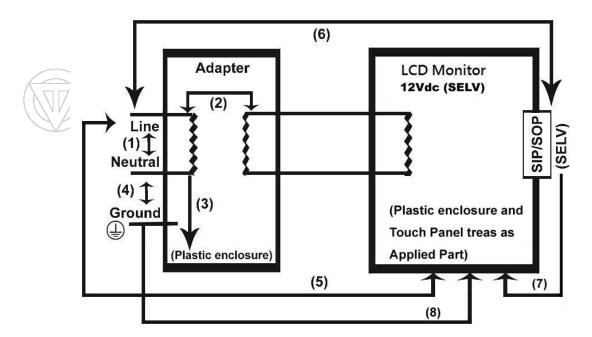
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#### **INSULATION DIAGRAM**















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				ı	EC 60601-1				
Claus	e Require	ment + Te	st			Result	- Remark		Verdict
	·								
TABL	.E: To insulatio	n diagram							Pass
Pollu	tion degree			: 2					_
Over	oltage categoi	ry		: II					_
Altitu	de			: 0 – 3	000 m				_
	ional details or plied parts			: Touc	lone 🔀 A h Panel Clause 4.6	Areas Plast for details	1	re and	_
	Number and type of Means	СТІ	Working	yoltage	Required	Required clearance	Measured creepage	Measured clearance	
Area	of Protection:	(IIIb, unless is known)	Vrms	Vpk	creepage (mm)	(mm)	(mm)	(mm)	Remarks
1	1 BOP	IIIb	250		3.0	1.6			Certified Power Supply.
2	2 MOPP	IIIb (	364		11.2	7.0		- (	Certified Power Supply
3	2 MOPP	IIIb	250		8.0	5.0			Certified Power Supply
4	1 MOPP	IIIb	250		4.0	2.5			Certified Power Supply
5	2 MOPP	IIIb	250		8.0	5.0	 l		Certified Power Supply
6	√2 MOPP	IIIb	250	<b></b>	8.0	5.0	The equipme nt is supplied via external certified power supply	The equipme nt is supplied via external certified power supply	Adapter Primary to equipment SIP/SOP
7	1 MOPP	IIIb	250		4.0	2.5	The equipme nt is supplied via external certified power supply	The equipme nt is supplied via external certified power supply	Monitor: SIP/SOP to plastic enclosure with foil
7/2	1 MOPP	IIIb	250		4.0	2.5	The equipme nt is supplied via	The equipme nt is supplied via	Monitor: SIP/SOP to Touch Panel with foil

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	IEC 60601-1									
Claus	se	Requirer	ment + Te	st			Result	- Remark	k Verdict	
								external certified power supply	external certified power supply	
8	1	MOPP	IIIb	250	-1	4.0	2.5	The equipme nt is supplied via external certified power supply	The equipme nt is supplied via external certified power supply	Adapter Earth to plastic enclosure with foil
8	1	MOPP	IIIb	250	<u></u>	4.0	2.5	The equipme nt is supplied via external certified power supply	The equipme nt is supplied via external certified power supply	Adapter Earth to Touch Panel with foil

### **INSULATION DIAGRAM CONVENTIONS and GUIDANCE:**

A measured value must be provided in the value columns for the device under evaluation. The symbol > (greater than sign) must not be used. Switch-mode power supplies must be re-evaluated in the device under evaluation therefore N/A must not be used with a generic statement that the component is certified.

Insulation diagram is a graphical representation of equipment insulation barriers, protective impedance and protective earthing. If feasible, use the following conventions to generate the diagram:

- All isolation barriers are identified by letters between separate parts of diagram, for example separate transformer windings, optocouplers, wire insulation, creepage and clearance distances.
- Parts connected to earth with large dots are protectively earthed. Other connections to earth are functional
- Applied parts are extended beyond the equipment enclosure and terminated with an arrow.
- Parts accessible to the operator only are extended outside of the enclosure, but are not terminated with an arrow.





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	IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict		

			11/17
4	GENERAL REQUIREMENTS		Pass
4.1	Requirements of this standard applied in NORMAL USE and reasonably foreseeable misuse		Pass
4.2	A RISK MANAGEMENT PROCESS complying with ISO 14971 was performed	See appended RM Results Table 4.2	Pass
4.3	ESSENTIAL PERFORMANCE functions identified according to MANUFACTURER'S policy for RISK acceptability in RISK MANAGEMENT FILE:	The product is used for information displaying which will not result unacceptable risk when function absence or degradation	N/A
	ESSENTIAL PERFORMANCE functions maintained following particular tests as applicable		N/A
4.4	EXPECTED SERVICE LIFE stated in RISK MANAGEMENT FILE	The Monitor expected live was 43,800 hours Completed by inspection	Pass
4.5	Alternative means of addressing particular RISKS considered acceptable based on MANUFACTURER'S justification that RESIDUAL RISKS resulting from application of alternative means equal to or less than RESIDUAL RISKS resulting from requirements of this standard	No alternative means applied in the evaluation of RM report	N/A
4.6	RISK MANAGEMENT PROCESS identifies parts that can come into contact with PATIENT but not defined as APPLIED PARTS, subjected to the requirements for APPLIED PARTS, except for Clause 7.2.10	The Monitor was no identifies parts that can come into contact with PATIENT.	N/A
4.7	ME EQUIPMENT remained SINGLE FAULT SAFE, or the RISK remained acceptable as determined by Clause 4.2	The requirements of Clause 8.1, item a), b) and Clause 13 are checked by inspection and/or by test and compliance with IEC 60601-1 requirements.  See appended RM Results Table 4.7	Pass
	Failure of any one component at a time that could result in a HAZARDOUS SITUATION, including those in 13.1, simulated physically or theoretically	See appended RM Results Table 4.7	Pass
	RISK associated with failure of component during EXPECTED SERVICE LIFE of ME EQUIPMENT taken into account to evaluate if a component should be subjected to failure simulation		Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.8	All components and wiring whose failure could result in a HAZARDOUS SITUATION used according to their applicable ratings, except as specified, or by RISK MANAGEMENT PROCESS	All components are used within their specified ratings See appended RM Results Table 4.8	Pass
	Reliability of components used as MEANS OF PROTECTION assessed for conditions of use in ME EQUIPMENT, and they complied with one of the following:		Pass
20	a) Applicable safety requirements of a relevant IEC or ISO standard	See appended table 8.10	Pass
	b) Requirements of this standard applied in the absence of a relevant IEC or ISO standard	Power adapter complied with the requirements of IEC 60601-1: 2005, EN 60601- 1:2006 and ANSI/AAMI ES60601-1.	Pass
4.9	A COMPONENT WITH HIGH-INTEGRITY CHARACTERISTICS provided because a fault in a particular component can generate an unacceptable RISK	No high integrity component used	N/A
	COMPONENTS WITH HIGH-INTEGRITY CHARACTERISTICS selected and evaluated consistent with their conditions of use and reasonable foreseeable misuse during EXPECTED SERVICE LIFE of ME EQUIPMENT by reviewing RISK MANAGEMENT FILE		N/A
4.10	Power supply		Pass
4.10.1	ME EQUIPMENT is suitable for connection to a SUPPLY MAINS, specified to be connected to a separate power supply, can be powered by an INTERNAL ELECTRICAL POWER SOURCE, or a combination of the three	The product is specified to be connected to a separate power supply	Pass
4.10.2	Maximum rated voltage for ME EQUIPMENT intended to be connected to SUPPLY MAINS is 250 V for HAND-HELD ME EQUIPMENT (V)	Not Hand-Held device	N/A
	- 250 V d.c. or single-phase a.c., or 500 V polyphase a.c. for ME EQUIPMENT and ME SYSTEMS with a RATED input ≤ 4 kVA (V):	For adapter; single phase: 100-240 V ac, current: 1.2- 0.63A; for Monitor unit: 12 V dc, 4.2 A	Pass
	- 500 V for all other ME EQUIPMENT and ME SYSTEMS		N/A
4.11	Power input		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
	<u> </u>	1	174
	Steady-state measured input of ME EQUIPMENT or ME SYSTEM at RATED voltage and at operating settings indicated in instructions for use did not exceed marked rating by more than 10%:	See appended Table 4.11	Pass
	- Measurements on ME EQUIPMENT or a ME SYSTEM marked with one or more RATED voltage ranges made at both upper and lower limits of the range	See appended Table 4.11	Pass
	Measurements made at a voltage equal to the mean value of the range when each marking of RATED input was related to the mean value of relevant voltage range	No such marking	N/A
	Power input, expressed in volt-amperes, measured with a volt-ampere meter or calculated as the product of steady state current (measured as described above) and supply voltage	See appended Table 4.11	Pass

5	GENERAL REQUIREMENTS FOR TESTING ME	EQUIPMENT	Pass
5.1	TYPE TESTS determined in consideration of Clause 4, in particular 4.2		Pass
	Test not performed when analysis indicated condition being tested was adequately evaluated by other tests or methods	No such condition See appended RM Results Table 5.1	Pass
	Results of RISK ANALYSIS used to determine combination(s) of simultaneous faults to be tested	See appended RM Results Table 5.1	Pass
5.2	TYPE TESTS conducted on one representative sample under investigation; multiple samples used simultaneously when validity of results was not significantly affected		Pass
5.3	a) Tests conducted within the environmental conditions specified in technical description		Pass
	Temperature (°C), Relative Humidity (%):	0-40°C; 5-95%.	_
	Atmospheric Pressure (kPa):	700-1060 hPa.	_
	b) ME EQUIPMENT shielded from other influences that might affect the validity of tests	No such situation	N/A
	c) Test conditions modified and results adjusted accordingly when ambient temperature could not be maintained:	No such situation	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.4	a) ME EQUIPMENT tested under least favourable working conditions specified in instructions for use and identified during RISK ANALYSIS, except as noted	See appended RM Results Table 5.4 a)	Pass
	b) ME EQUIPMENT with adjustable or controlled operating values by anyone other than SERVICE PERSONNEL adjusted to values least favourable for the relevant test per instructions for use	This equipment was tested with the maximum normal load, see test results table for detail.	N/A
	c) When test results influenced by inlet pressure and flow or chemical composition of a cooling liquid, tests performed within the limits in technical description	No such construction provided inside the equipment.	N/A
	d) Potable water used for cooling		N/A
5.5	Supply voltage during tests was the least favourable of the voltages specified in 4.10 or voltages marked on ME EQUIPMENT (V)	Rated voltage: 100-240 V ac; Tested at 90/100/240/264 V ac; Monitor unit: 12 V dc	Pass
	ME EQUIPMENT marked with a RATED frequency range tested at the least favourable frequency within the range (Hz)	Rated frequency: 60/50 Hz	Pass
	ME EQUIPMENT with more than one RATED voltage, or both a.c./ d.c. tested in conditions (see 5.4) related to the least favourable voltage, nature of supply, and type of current:	Tested at 90/100/240/264V ac, Single phase supply; AC current. Monitor unit: 12 V dc	Pass
	ME EQUIPMENT tested with alternative ACCESSORIES and components specified in ACCOMPANYING DOCUMENTS to result in the least favourable conditions:	No such construction	N/A
	ME EQUIPMENT connected to a separate power supply as specified in instructions for use	No such construction	N/A
5.6	When failure occurred or probability of future failure detected during sequence of tests, per agreement with manufacturer, all tests affecting results conducted on a new sample		Pass
	Alternatively, upon repair and modification of the sample, only the relevant tests conducted		Pass
5.7	ME EQUIPMENT or parts thereof affected by climatic conditions were set up completely, or partially, with covers detached and subjected to a humidity preconditioning prior to tests of Clauses 8.7.4 and 8.8.3	See appended RM Results Table 5.7	Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Manually detachable parts removed and treated concurrently with major parts and manually removable ACCESS COVERS were opened and detached	No such construction	N/A
	ME EQUIPMENT heated to a temperature between T and T + 4 °C for at least 4 h and placed in a humidity chamber with a relative humidity of 93 % ± 3 % and an ambient within 2 °C of T in the range of + 20 °C to + 32 °C for 48 h	21.2 °C 93 % 48 h	Pass
	When RISK MANAGEMENT PROCESS indicated ME EQUIPMENT can be exposed to high humidity for extended periods (i.e., out-door use), test time extended proportionally (h):		N/A
5.8	Unless stated otherwise, tests in this standard sequenced as in Annex B to prevent results of one test on a subsequent test		Pass
5.9	Determination of APPLIED PARTS and ACCESSIBLE P	ARTS	Pass
5.9.1	APPLIED PARTS identified by inspection and reference to ACCOMPANYING DOCUMENTS:	See clause 4.6  Monitor was defined for the equipment.	Pass
5.9.2	ACCESSIBLE PARTS		Pass
5.9.2.1	Accessibility, when necessary, determined using standard test finger of Fig 6 applied in a bent or straight position	See appended Table 5.9.2	Pass
	Openings preventing entry of test finger of Fig. 6 mechanically tested with a straight un-jointed test finger of the same dimensions with a force of 30 N		Pass
	When the straight un-jointed test finger entered, test with the standard test finger (Fig 6) was repeated, if necessary, by pushing the finger through the opening		N/A
5.9.2.2	Test hook of Fig. 7 inserted in all openings of ME EQUIPMENT and pulled with a force of 20 N for 10 s	Openings designed to prevent the possibility for test hook to insert.	Pass
	All additional parts that became accessible checked using standard test finger and by inspection		N/A
5.9.2.3	Conductive parts of actuating mechanisms of electrical controls accessible after removal of handles, knobs, levers and the like regarded as ACCESSIBLE PARTS		N/A







	IEC 60601-1					
Clause	Requirement + Test	Result - Remark	Verdict			
	Conductive parts of actuating mechanisms not considered ACCESSIBLE PARTS when removal of handles, knobs, etc. required use of a TOOL, and inspection of RISK MANAGEMENT FILE indicated the relevant part is unlikely to detach unintentionally during EXPECTED SERVICE LIFE of ME EQUIPMENT		N/A			
TIPA						
6	CLASSIFICATION OF ME EQUIPMENT AND ME	SYSTEMS	Pass			
6.2	CLASS I ME EQUIPMENT, externally powered	Class I	Pass			
	CLASS II ME EQUIPMENT, externally powered		N/A			
	INTERNALLY POWERED ME EQUIPMENT		N/A			
	EQUIPMENT with means of connection to a SUPPLY MAINS complied with CLASS I or CLASS II ME EQUIPMENT requirements when so connected, and when not connected to SUPPLY MAINS with INTERNALLY POWERED ME EQUIPMENT requirements	Device is a Monitor which connected to a switching power adapter.	N/A			
	TYPE B APPLIED PART		Pass			
	TYPE BF APPLIED PART		N/A			
	TYPE CF APPLIED PART		N/A			
(TIPA	DEFIBRILLATION-PROOF APPLIED PARTS		N/A			
6.3	ENCLOSURES classified according to degree of protection against ingress of water and particulate matter (IPN <sub>1</sub> N <sub>2</sub> ) as per IEC 60529:	IPX0 See appended RM Result Table 11.6.5	N/A			
6.4	ME EQUIPMENT or its parts intended to be sterilized classified according to method(s) of sterilization in instructions for use:	No such function for the product.  The application of this clause shall be evaluated in end application	N/A			
6.5	ME EQUIPMENT and ME SYSTEMS intended for use in an OXYGEN RICH ENVIRONMENT classified for such use and complied with 11.2.2	Equipment not suitable for use in the presence of OXYGEN RICH ENVIRONMENT	N/A			
6.6	CONTINUOUS OF Non-CONTINUOUS OPERATION:	Continuous	Pass			
	<u> </u>		L			

777	ME EQUIPMENT IDENTIFICATION, MARKING,	ND DOCUMENTS	Pass
7.1,1	RISK of poor USABILITY associated with the design of ME EQUIPMENT'S identification and marking addressed in a USABILITY ENGINEERING PROCESS	The equipment which used for information display and its intended performance will not be affect by usability.	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
7.1.2	Legibility of Markings Test for Markings specified in Clause 7.2-7.6:	See appended Table 7.1.2	Pass
7.1.3	Required markings can be removed only with a TOOL or by appreciable force, are durable and remain CLEARLY LEGIBLE during EXPECTED SERVICE LIFE OF ME EQUIPMENT IN NORMAL USE		Pass
	a) After tests, adhesive labels didn't loosen up or curl up at edges and markings complied with requirements in Clause 7.1.2	See appended Table 7.1.3	Pass
	b) Markings required by 7.2-7.6 remained CLEARLY LEGIBLE after marking durability test:	See appended Table 7.1.3	Pass
7.2	Marking on the outside of ME EQUIPMENT or ME EQ	UIPMENT parts	Pass
7.2.1	At least markings in 7.2.2, 7.2.5, 7.2.6 (not for PERMANENTLY INSTALLED ME EQUIPMENT), 7.2.10, and 7.2.13 were applied when size of EQUIPMENT, its part, an ACCESSORY, or ENCLOSURE did not permit application of all required markings	See Copy of marking plate for detail.	Pass
	Remaining markings fully recorded in ACCOMPANYING DOCUMENTS:		Pass
	Markings applied to individual packaging when impractical to apply to ME EQUIPMENT	No such markings	N/A
	A material, component, ACCESSORY, or ME EQUIPMENT intended for a single use, or its packaging marked "Do Not Reuse" or with symbol 28 of Table D.1 (ISO 7000-1051, DB:2004-01)	No single use construction	N/A
7.2.2	MANUFACTURER'S name or trademark marked on ME EQUIPMENT and detachable components:	or ONYX Healthcare Inc. provided on the label	Pass
	Misidentification does not present an unacceptable risk	See appended RM Results Table 7.2.2	Pass
	MODEL OR TYPE REFERENCE also marked, except when misidentification would not present an unacceptable RISK	Models name ONYX- BE381DT-xx-xxxx (Where x is 0-9 , A-Z , - or blank)	Pass
	Software forming part of a PEMS identified with a unique identifier, such as revision level or date of release/issue, and identification are available to designated persons	No such part	N/A
7.2.3	Symbol 11 on Table D.1 (ISO 7000-1641, DB: 2004-01) used, optionally, advice to OPERATOR to consult ACCOMPANYING DOCUMENTS	Provided on installation Instruction, see Installation Instruction for detail	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
	Safety sign 10 on Table D.2 (safety sign IEC 60878 Safety 01) used, advising OPERATOR that ACCOMPANYING DOCUMENTS must be consulted		N/A
7.2.4	Accessories marked with name or trademark of MANUFACTURER or supplier, and with a MODEL or TYPE REFERENCE:	No accessories	N/A
	Markings applied to individual packaging when not practical to apply to ACCESSORIES	772	N/A
7.2.5	MODEL or TYPE REFERENCE of equipment to be connected to ME EQUIPMENT to provide power, is marked adjacent to the relevant connection point when this connection could result in an unacceptable RISK	No such construction See appended RM Results Table 7.2.5	N/A
7.2.6	Connection to the Supply Mains		Pass
	Except for PERMANENTLY INSTALLED ME EQUIPMENT, marking appearing on the outside of part containing SUPPLY MAINS connection and, adjacent to connection point		Pass
	For PERMANENTLY INSTALLED ME EQUIPMENT, NOMINAL supply voltage or range marked inside or outside of ME EQUIPMENT, preferably, adjacent to supply connection terminals	Not permanently installed ME equipment	N/A
	- RATED supply voltage(s) or RATED voltage range(s) with a hyphen (-) between minimum and maximum voltages (V, V-V)	For Adapter: 100-240 V ac For Monitor: 12 V dc	Pass
7	Multiple RATED supply voltages or multiple RATED supply voltage ranges are separated by (V/V):	No Multiple RATED supply voltages or multiple RATED supply voltage ranges	N/A
	- Nature of supply (e.g., No. of phases, except single-phase) and type of current:	Single phase	Pass
	Symbols 1-5, Table D.1 (symbols of IEC 60417-5032, 5032-1, 5032-2, 5031, and 5033, all DB: 2002-10) used, optionally, for same parameters:	Symbol IEC 60417-5032 and IEC 60417-5031 were used for external adapter	Pass
	- RATED supply frequency or RATED frequency range in hertz:	60/50 Hz	Pass
	- Symbol 9 of Table D.1 (symbol IEC 60417-5172, DB: 2003-02) used for CLASS II ME EQUIPMENT	Class I equipment	N/A
7.2.7	RATED input in amps or volt-amps, or in watts when power factor exceeds 0.9 (A, VA, W)	Rated input in amps marked	Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	RATED input for one or more RATED voltage ranges provided for upper and lower limits of the range or ranges when the range(s) is/are greater than ± 10 % of the mean value of specified range (A, VA,W):	For Adapter: AC 1.2-0.63A For Monitor: DC 4.2 A	Pass
	Input at mean value of range marked when range limits do not differ by more than 10 % from mean value (A, VA, W)	No such marking	N/A
	Marking includes long-time and most relevant momentary volt-ampere ratings when provided, each plainly identified and indicated in ACCOMPANYING DOCUMENTS (VA):	No such marking	N/A
	Marked input of ME EQUIPMENT provided with means for connection of supply conductors of other electrical equipment includes RATED and marked output of such means (A, VA, W):	Monitor: 12 V dc, 4.2 A Power Adapter: 100-240 V ac, 60/50 Hz, 1.2-0.63 A	Pass
7.2.8	Output connectors		Pass
7.2.8.1	See 16.9.2.1 b) for MULTIPLE SOCKET-OUTLETS integral with ME EQUIPMENT	No MULTIPLE SOCKET-OUTLETS	N/A
7.2.8.2	Output connectors are marked, except for MULTIPLE SOCKET-OUTLETS or connectors intended for specified ACCESSORIES or equipment	Single output for external adapter and the rating marked on the label.	Pass
	Rated Voltage (V), Rated Current (A)		_
W/	Rated Power (W), Output Frequency (Hz):		_
7.2.9	ME EQUIPMENT or its parts marked with the IP environmental Code per IEC 60529 according to classification in 6.3 (Table D.3, Code 2)	The equipment classified IPX0 need not be marked.	N/A
7.2.10	Degrees of protection against electric shock as classified in 6.2 for all APPLIED PARTS marked with relevant symbols as follows (not applied to parts identified according to 4.6):		N/A
	TYPE B APPLIED PARTS with symbol 19 of Table D.1 (IEC 60417-5840, DB: 2002-10), not applied in such a way as to give the impression of being inscribed within a square in order to distinguish it from symbol IEC 60417-5333:		Pass
	TYPE BF APPLIED PARTS with symbol 20 of Table D.1 (IEC 60417-5333, DB: 2002-10)		N/A
	TYPE CF APPLIED PARTS with symbol 21 of Table D.1 (IEC 60417-5335, DB: 2002-10):		N/A
<i>y</i>	DEFIBRILLATION-PROOF APPLIED PARTS marked with symbols 25-27 of Table D.1 (IEC 60417-5841, IEC 60417-5334, or IEC 60417-5336, all DB: 2002-10):		N/A





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Clause	Requirement + Test	Result - Remark	Verdict	
	ATTA	A	17.4	
	Proper symbol marked adjacent to or on connector for APPLIED PART, except marked on APPLIED PART when there is no connector, or connector used for more than one APPLIED PART and different APPLIED PARTS with different classifications		N/A	
	Safety sign 2 of Table D.2 (ISO 7010-W001) placed near relevant outlet when protection against effect of discharge of a cardiac defibrillator is partly in the PATIENT cable		N/A	
	An explanation indicating protection of ME EQUIPMENT against effects of discharge of a cardiac defibrillator depends on use of proper cables included in instructions for use		N/A	
7.2.11	ME EQUIPMENT not marked to the contrary assumed to be suitable for CONTINUOUS OPERATION	The equipment work continuously without specified marking.	Pass	
	DUTY CYCLE for ME EQUIPMENT intended for non- CONTINUOUS OPERATION appropriately marked to provide maximum "on" and "off" time:		N/A	
7.2.12	Type and full rating of a fuse marked adjacent to ACCESSIBLE fuse-holder	Evaluated in part of power supply.	N/A	
	Fuse type:		_	
(TIPA	Voltage (V) and Current (A) rating:	774	1	
377	Operating speed (s) and Breaking capacity:		_	
7.2.13	A safety sign CLEARLY LEGIBLE and visible after INSTALLATION in NORMAL USE applied to a prominent location of EQUIPMENT that produce physiological effects capable of causing HARM to PATIENT OR OPERATOR not obvious to OPERATOR:	No physiological effects	N/A	
	Nature of HAZARD and precautions for avoiding or minimizing the associated RISK described in instructions for use:	See appended RM Results Table 7.2.13	N/A	
7.2.14	HIGH VOLTAGE TERMINAL DEVICES on the outside of ME EQUIPMENT accessible without the use of a TOOL marked with symbol 24 of Table D.1 (symbol IEC 60417-5036, DB: 2002-10)	No such construction.	N/A	
7.2.15	Requirements for cooling provisions marked (e.g., supply of water or air)		N/A	
7.2.16	ME EQUIPMENT with limited mechanical stability	No special limitation in mechanical stability.	N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
7.2.17	Packaging marked with special handling instructions for transport and/or storage:	Packaging with special transportation and storage condition – see carton label for detail.	Pass
	Permissible environmental conditions for transport and storage marked on outside of packaging:	See Technical Documentation - carton label for detail.	Pass
	Packaging marked with a suitable safety sign indicating premature unpacking of ME EQUIPMENT could result in an unacceptable RISK:	See appended RM Results Table 7.2.17	Pass
	Packaging of sterile ME EQUIPMENT or ACCESSORIES marked sterile	No sterilized packaging	N/A
7.2.18	RATED maximum supply pressure from an external source marked on ME EQUIPMENT adjacent to each input connector:	No such construction	N/A
7.2.19	Symbol 7 of Table D.1 (IEC 60417-5017, DB:2002-10) marked on FUNCTIONAL EARTH TERMINAL:	No functional earth terminal	N/A
7.2.20	Protective means, required to be removed to use a particular function of ME EQUIPMENT with alternate applications, marked to indicate the necessity for replacement when the function is no longer needed	No such protective means is required.	N/A
774	No marking applied when an interlock provided	774	N/A
7.3	Marking on the inside of ME EQUIPMENT OF ME EQUIP	PMENT parts	N/A
7.3.1	Maximum power loading of heating elements or lamp-holders designed for use with heating lamps marked near or in the heater (W)	No heating elements or lamp-holders provided	N/A
	A marking referring to ACCOMPANYING DOCUMENTS provided for heating elements or lamp-holders designed for heating lamps that can be changed only by SERVICE PERSONNEL using a TOOL		N/A
7.3.2	Symbol 24 of Table D.1 (symbol IEC 60417-5036, DB: 2002-10), or safety sign 3 of Table D.2 used to mark presence of HIGH VOLTAGE parts:		N/A
7.3.3	Type of battery and mode of insertion when applicable is marked:		N/A
	An identifying marking provided referring to instructions in ACCOMPANYING DOCUMENTS for batteries intended to be changed only by SERVICE PERSONNEL using a TOOL		N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	<u> </u>	( ) 7	17/4
	A warning provided indicating replacement of lithium batteries or fuel cells when incorrect replacement by inadequately trained personnel would result in an unacceptable RISK (e.g., excessive temperatures, fire or explosion):		N/A
	An identifying marking also provided referring to instructions in ACCOMPANYING DOCUMENTS:	See appended RM Results Table 7.3.3	N/A
7.3.4	Fuses, replaceable THERMAL CUT-OUTS and OVER-CURRENT RELEASES, accessible by use of a TOOL, marked by type and full rating at the component or by reference to ACCOMPANYING DOCUMENTS	Evaluated in part of power supply	N/A
	Туре:		_
	Voltage (V) and Current (A) rating:		_
	Operating speed (s) and Breaking capacity:		_
7.3.5	PROTECTIVE EARTH TERMINAL marked with symbol 6 of Table D.1 (IEC 60417-5019, DB: 2002-10), except for the PROTECTIVE EARTH TERMINAL in an APPLIANCE INLET according to IEC 60320-1	Evaluated in part of power supply	N/A
	Markings on or adjacent to PROTECTIVE EARTH TERMINALS not applied to parts requiring removal to make the connection, and remained visible after connection made		N/A
7.3.6	Symbol 7 of Table D.1 (IEC 60417-5017, DB: 2002 -10) marked on FUNCTIONAL EARTH TERMINALS	NO FUNCTIONAL EARTH TERMINALS	N/A
7.3.7	Terminals for supply conductors marked adjacent to terminals, except when no HAZARD would result when interchanging connections	Evaluated in part of power supply	N/A
	Terminal markings included in ACCOMPANYING DOCUMENTS when ME EQUIPMENT too small to accommodate markings		N/A
	Terminals exclusively for neutral supply conductor in PERMANENTLY INSTALLED ME EQUIPMENT marked with Code 1 of Table D.3 (Code in IEC 60445)	Not PERMANENTLY INSTALLED ME EQUIPMENT	N/A
	Marking for connection to a 3-phase supply, if necessary, complies with IEC 60445	Single phase	N/A
	Markings on or adjacent to electrical connection points not applied to parts requiring removal to make connection, and remained visible after connection made	No such construction	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
7.3.8	"For supply connections, use wiring materials suitable for at least X°C" (where X > than max temperature measured in terminal box or wiring compartment under NORMAL USE), or equivalent, marked at the point of supply connections	Evaluated in part of power supply	N/A
	Statement not applied to parts requiring removal to make the connection, and CLEARLY LEGIBLE after connections made		N/A
7.4	Marking of controls and instruments		Pass
7.4.1	The "on" & "off" positions of switch to control power to ME EQUIPMENT or its parts, including mains switch, marked with symbols 12 and 13 of Table D.1 (IEC 60417-5007, DB: 2002-10, and IEC 60417-5008, DB: 2002-10), or	No ON/OFF switch provided	N/A
	- indicated by an adjacent indicator light, or		N/A
	- indicated by other unambiguous means	( \7	N/A
	The "on/off" positions of push button switch with bi-stable positions marked with symbol 14 of Table D.1 (IEC 60417-5010 DB: 2002-10), and	No ON/OFF switch provided	N/A
	- status indicated by adjacent indicator light		N/A
	status indicated by other unambiguous means		N/A
	The "on/off" positions of push button switch with momentary on position marked with symbol 15 of Table D.1 (symbol 60417-5011 DB: 2002-10), or	No ON/OFF switch provided	N/A
	- status indicated by adjacent indicator light		N/A
	- status indicated by other unambiguous means		N/A
7.4.2	Different positions of control devices/switches indicated by figures, letters, or other visual means	The symbol $\ \ \ \ $ is provided.	Pass
	Controls provided with an associated indicating device when change of setting of a control could result in an unacceptable RISK to PATIENT in NORMAL USE, or	No setting / control will result risk to patient when normal use.	N/A
	an indication of direction in which magnitude of the function changes		N/A
7.4.3	Numeric indications of parameters on ME EQUIPMENT expressed in SI units according to ISO 31 except the base quantities listed in Table 1 expressed in the indicated units	No such function	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	ISO 1000 applied for application of si units, their multiples, and certain other units		N/A
	All Markings in Sub-clause 7.4 complied with tests and criteria of 7.1.2 and 7.1.3		N/A
7.5	Safety signs		N/A
	Markings used to convey a warning, prohibition or mandatory action mitigating a RISK not obvious to OPERATOR are safety signs from ISO 7010	No such situation	N/A
	Affirmative statement together with safety sign placed in instructions for use if insufficient space on ME EQUIPMENT		N/A
	Specified colours in ISO 3864-1 used for safety signs:		N/A
	Safety notices include appropriate precautions or instructions on how to reduce RISK(S)		N/A
	Safety signs including any supplementary text or symbols described in instructions for use		N/A
7.6	Symbols		Pass
7.6.1	Meanings of symbols used for marking described in instructions for use:	Explanation provided for each related marking – see "Safety Symbol Description" and "Front Button Functions"	Pass
7.6.2	Symbols required by this standard conform to IEC or ISO publication referenced	Complied with table D.1	Pass
7.6.3	Symbols used for controls and performance conform to the IEC or ISO publication where symbols are defined, as applicable	No such function	N/A
7.7	Colours of the insulation of conductors	77	Pass
7.7.1	PROTECTIVE EARTH CONDUCTOR identified by green and yellow insulation	Evaluated in part of power supply	Pass
7.7.2	Insulation on conductors inside ME EQUIPMENT forming PROTECTIVE EARTH CONNECTIONS identified by green and yellow at least at terminations		Pass
7.7.3	Green and yellow insulation identify only following conductors:		Pass
30	- PROTECTIVE EARTH CONDUCTORS	Evaluated in part of power supply	Pass
	- conductors specified in 7.7.2		Pass
	- POTENTIAL EQUALIZATION CONDUCTORS	No such construction	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	1 172		174
	- FUNCTIONAL EARTH CONDUCTORS	No such construction	N/A
7.7.4	Neutral conductors of POWER SUPPLY CORDS are "light blue" specified in IEC 60227-1 or IEC 60245-1	No power supply cord provides.	N/A
7.7.5	Colours of conductors in POWER SUPPLY CORDS in accordance with IEC 60227-1 or IEC 60245-1	No power supply cord provides.	N/A
7.8	Indicator lights and controls		Pass
7.8.1	Red indicator lights mean: Warning (i.e., immediate response by OPERATOR required)	No red colour indicator light	N/A
	Yellow indicator lights mean: Caution (i.e., prompt response by OPERATOR required)	No yellow colour indicator light	N/A
	Green indicator lights mean: Ready for use		Pass
	Other colours, if used: Meaning other than red, yellow, or green (colour, meaning):	White for reading light	Pass
7.8.2	Red used only for emergency control	No such function	N/A
7.9	ACCOMPANYING DOCUMENTS		Pass
7.9.1	ME EQUIPMENT accompanied by documents containing at least instructions for use, and a technical description	User Manual provided	Pass
	ACCOMPANYING DOCUMENTS identify ME EQUIPMENT by the following, as applicable:		Pass
	Name or trade-name of MANUFACTURER and an address the RESPONSIBLE ORGANIZATION can be referred to:	ONYX Healthcare Inc. or	Pass
	- MODEL OF TYPE REFERENCE:	Model name ONYX- BE381DT-xx-xxxx (Where x is 0-9 , A-Z , - or blank)	Pass
	When ACCOMPANYING DOCUMENTS provided electronically (e.g., on CD ROM), RISK MANAGEMENT PROCESS includes instructions as to what is required in hard copy or as markings on ME EQUIPMENT (for emergency operation)	See appended RM Results Table 7.9.1	Pass
	ACCOMPANYING DOCUMENTS specify special skills, training, and knowledge required of OPERATOR or RESPONSIBLE ORGANIZATION and environmental restrictions on locations of use	See User Manual: Chapter 1 - 1.3 Specification	Pass
	ACCOMPANYING DOCUMENTS written at a level consistent with education, training, and other needs of individuals for whom they are intended		N/A
7.9.2	Instructions for use include the required information		Pass

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	IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict		
7.9.2.1	- intended use of ME EQUIPMENT,	See User Manual: Chapter 1 - 1.1 Introduction	Pass		
	- frequently used functions, and	No specified function be defined as frequently use	N/A		
	- known contraindication(s) to use of ME EQUIPMENT		N/A		
	Classifications as in Clause 6, all markings per Clause 7.2, and explanation of safety signs and symbols marked on ME EQUIPMENT		Pass		
7	Instructions for use are in a language acceptable to the intended operator	Written in English which is international common-used language	Pass		
7.9.2.2	Instructions for use include all warning and safety notices		Pass		
	Warning statement for CLASS I ME EQUIPMENT indicating: "WARNING: To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth"	See User Manual: "Safety & Warranty"	Pass		
	Warnings regarding significant RISKS of reciprocal interference posed by ME EQUIPMENT during specific investigations or treatments		N/A		
	Information on potential electromagnetic or other interference and advice on how to avoid or minimize such interference		N/A		
	Warning statement for ME EQUIPMENT supplied with an integral MULTIPLE SOCKET-OUTLET indicating, "connecting electrical equipment to MSO effectively leads to creating an ME SYSTEM, and can result in a reduced level of safety"	No multiple socket-outlet	N/A		
	The RESPONSIBLE ORGANIZATION is referred to this standard for the requirements applicable to ME SYSTEMS	No system been defined	N/A		
7.9.2.3	Statement on ME EQUIPMENT for connection to a separate power supply indicating "power supply is specified as a part of ME EQUIPMENT or combination is specified as a ME SYSTEM"	Specified power supply was indicated on the label	Pass		
7.9.2.4	Warning statement for mains- operated ME EQUIPMENT with additional power source not automatically maintained in a fully usable condition indicating the necessity for periodic checking or replacement of power source	The power supply is full usable condition, no warning statement is required	N/A		
	Warning to remove primary batteries when ME EQUIPMENT is not likely to be used for some time when leakage from battery would result in an unacceptable RISK	No primary battery used.	N/A		

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Clause	Requirement + Test	Result - Remark	Verdict	
	Specifications of replaceable INTERNAL ELECTRICAL POWER SOURCE when provided:		N/A	
	Warning indicating ME EQUIPMENT must be connected to an appropriate power source when loss of power source would result in an unacceptable RISK:	See appended RM Results Table 7.9.2.4	N/A	
7.9.2.5	Instructions for use include a description of ME EQUIPMENT, its functions, significant physical and performance characteristics together with the expected positions of OPERATOR, PATIENT, or other persons near ME EQUIPMENT IN NORMAL USE	See User Manual: Chapter 1	Pass	
	Information provided on materials and ingredients PATIENT OF OPERATOR is exposed to when such exposure can constitute an unacceptable RISK		N/A	
	Restrictions specified on other equipment or NETWORK/DATA COUPLINGS, other than those forming part of an ME SYSTEM, to which a SIGNAL INPUT/OUTPUT PART may be connected		N/A	
	APPLIED PARTS specified	Touch Panel and Plastic enclosure	Pass	
7.9.2.6	Information provided indicating where the installation instructions may be found or information on qualified personnel who can perform the installation	See User Manual: Chapter 2	Pass	
7.9.2.7	Instructions provided indicating not to position ME EQUIPMENT to make it difficult to operate the disconnection device when an APPLIANCE COUPLER or separable plug is used as isolation means to meet 8.11.1 a)	The disconnection device of the Monitor is power supply cord, which will not be difficult to disconnect.	Pass	
7.9.2.8	Necessary information provided for OPERATOR to bring ME EQUIPMENT into operation including initial control settings, and connection to or positioning of PATIENT prior to use of ME EQUIPMENT, its parts, or ACCESSORIES	See User Manual: Chapter 2	Pass	
7.9.2.9	Information provided to operate ME EQUIPMENT including explanation of controls, displays and signals, sequence of operation, connection of detachable parts or ACCESSORIES, replacement of material consumed during operation	See User Manual: Chapter 1	Pass	
	Meanings of figures, symbols, warning statements, abbreviations and indicator lights described in instructions for use	See User Manual: "Safety Symbol Description"	Pass	

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
7.9.2.10	A list of all system messages, error messages, and fault messages provided with an explanation of messages including important causes and possible action(s) to be taken to resolve the problem indicated by the message		N/A
7.9.2.11	Information provided for the OPERATOR to safely terminate operation of ME EQUIPMENT	See User Manual: Chapter 2	Pass
7.9.2.12	Information provided on cleaning, disinfection, and sterilization methods, and applicable parameters that can be tolerated by ME EQUIPMENT parts or ACCESSORIES specified	See User Manual: Appendix	Pass
	Components, ACCESSORIES or ME EQUIPMENT marked for single use, except when required by MANUFACTURER to be cleaned, disinfected, or sterilized prior to use		N/A
7.9.2.13	Instructions provided on preventive inspection, calibration, maintenance and its frequency	No calibration / maintenance are required for this Monitor because normal lifetime is expected to be 43,800 hours.	N/A
	Information provided for safe performance of routine maintenance necessary to ensure continued safe use of ME EQUIPMENT		N/A
	Parts requiring preventive inspection and maintenance to be performed by SERVICE PERSONNEL identified including periods of application		N/A
	Instructions provided to ensure adequate maintenance of ME EQUIPMENT containing rechargeable batteries to be maintained by anyone other than SERVICE PERSONNEL	See User Manual: "Safety & Warranty"	Pass
7.9.2.14	A list of ACCESSORIES, detachable parts, and materials for use with ME EQUIPMENT provided		N/A
	Other equipment providing power to ME SYSTEM sufficiently described (e.g. part number, RATED VOLTAGE, max or min power, protection class, intermittent or continuous service)		N/A
7.9.2.15	RISKS associated with disposal of waste products, residues, etc., and of ME EQUIPMENT and ACCESSORIES at the end of their EXPECTED SERVICE LIFE are identified, and instructions provided on minimizing these RISKS	See User Manual: Appendix	Pass
7.9.2.16	Instructions for use include information specified in 7.9.3 or identify where it can be found (e.g. in a service manual)		Pass







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	ATTA	A	17/4
7.9.3	Technical description		Pass
7.9.3.1	All essential data provided for safe operation, transport, storage, and measures or conditions necessary for installing ME EQUIPMENT, and preparing it for use including the following:	See below	Pass
	- information as in clause 7.2		Pass
	permissible environmental conditions of use including conditions for transport and storage	See User Manual: Chapter 1 -1.3 Specification	Pass
<b>Y</b>	<ul> <li>all characteristics of ME EQUIPMENT including range(s), accuracy, and precision of displayed values or where they can be found</li> </ul>	See User Manual: Chapter 1 - 1.3 Specification	Pass
	- special installation requirements such as max. permissible apparent impedance of SUPPLY MAINS		N/A
	<ul> <li>permissible range of values of inlet pressure and flow, and chemical composition of cooling liquid used for cooling</li> </ul>		N/A
	- a description of means of isolating ME EQUIPMENT from SUPPLY MAINS, when such means not in ME EQUIPMENT	Medical grade power supply provided as means of insulation.	Pass
	– a description of means for checking oil level in partially sealed oil filled ME EQUIPMENT or its parts when applicable		N/A
	<ul> <li>a warning statement addressing HAZARDS that can result from unauthorized modification of ME EQUIPMENT according to following examples</li> </ul>	See below	Pass
	"warning: No modification of this equipment is allowed"		N/A
	"warning: Do not modify this equipment without authorization of the manufacturer"	See User Manual: "Safety & Warranty"	Pass
	"warning: If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of equipment"		N/A
	Technical description separable from instruction information, as follows	ns for use contains required	N/A
	- information as in clause 7.2		N/A
	all applicable classifications in Clause 6, warning and safety notices, and explanation of safety signs marked on ME EQUIPMENT		N/A
	- a brief description of ME EQUIPMENT, how it functions, and its significant physical and performance characteristics		N/A

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Ī		IEC 60601-1		
	Clause	Requirement + Test	Result - Remark	Verdict
		MANUFACTURER'S optional requirements for minimum qualifications of SERVICE PERSONNEL documented in technical description		N/A
Ī	7.9.3.2	The technical description contains the following	required information	N/A
		-type and full rating of fuses used in SUPPLY MAINS external to PERMANENTLY INSTALLED ME EQUIPMENT, when type and rating of fuses are not apparent from information on RATED current and mode of operation of ME EQUIPMENT	Not permanently installed ME equipment	N/A
		- a statement for ME EQUIPMENT with a non- DETACHABLE POWER SUPPLY CORD if POWER SUPPLY CORD is replaceable by SERVICE PERSONNEL, and if so, instructions for correct connection and anchoring to ensure compliance with 8.11.3	Detachable power supply cord used.	N/A
		- instructions for correct replacement of interchangeable or detachable parts specified by MANUFACTURER as replaceable by SERVICE PERSONNEL, and	No such instruction is required	N/A
		- warnings identifying nature of HAZARD when replacement of a component could result in an unacceptable RISK, and when replaceable by SERVICE PERSONNEL all information necessary to safely replace the component		N/A
	7.9.3.3	Technical description indicates, MANUFACTURER will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONNEL in parts repair	See User Manual: "Safety & Warranty"	Pass
	7.9.3.4	Means used to comply with requirements of 8.11.1 clearly identified in technical description	Isolation power supply provided as source of electricity	Pass

8	PROTECTION AGAINST ELECTRICAL HAZARDS FROM ME EQUIPMENT		
8.1	Limits specified in Clause 8.4 not exceeded for ACCESSIBLE PARTS and APPLIED PARTS in NORMAL or SINGLE FAULT CONDITIONS	See appended RM Results Table 8.1 b(1), 8.1 b(2) and 8.1 b(3)	Pass
	NORMAL CONDITION considered as simultaneous occurrence of situations identified in 8.1a)		Pass
	SINGLE FAULT CONDITION considered to include the occurrences as specified in Clause 8.1b)	See appended RM Results Table 8.1 b(1), 8.1 b(2) and 8.1 b(3)	Pass
70	Accessible Parts determined according to 5.9		Pass
	LEAKAGE CURRENTS measured according to 8.7		Pass
8.2	Requirements related to power sources		Pass

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Clause	Requirement + Test	Result - Remark	Verdict
8.2.1	When ME EQUIPMENT specified for connection to a separate power source other than SUPPLY MAINS, separate power source considered as part of ME EQUIPMENT or combination considered as an ME SYSTEM	Separated power supply was considered as part of ME Equipment	Pass
	Tests performed with ME EQUIPMENT connected to separate power supply when one specified		Pass
	When a generic separate power supply specified, specification in ACCOMPANYING DOCUMENTS examined	Specification of specified power supply examined	Pass
8.2.2	No HAZARDOUS SITUATION other than absence of ESSENTIAL PERFORMANCE developed when a connection with wrong polarity made for ME EQUIPMENT from an external d.c. source	Design of plug will prevent wrong polarity connection	Pass
	ME EQUIPMENT connected with correct polarity did not present an unacceptable RISK	See appended RM Results Table 8.2.2	Pass
	Protective devices that can be reset by anyone without a TOOL restore correct operation on reset	No re-settable protective device	N/A
8.3	Classification of APPLIED PARTS		Pass
	a) APPLIED PART specified in ACCOMPANYING DOCUMENTS as suitable for DIRECT CARDIAC APPLICATION IS TYPE CF		N/A
	b) An APPLIED PART provided with a PATIENT CONNECTION intended to deliver electrical energy or an electrophysiological signal to or from PATIENT is TYPE BF or CF APPLIED PART		N/A
	c) An APPLIED PART not covered by a) or b) is a TYPE B, BF, or CF	Touch Panel and Plastic Enclosure treat as Type B applied part.	Pass
	d) Requirements of a TYPE B APPLIED PART applied to a part in 4.6 to be subjected to requirements for an APPLIED PART (except marking)		N/A
	Requirements for a TYPE BF or CF APPLIED PART applied as in RISK MANAGEMENT PROCESS	See appended RM Results Table 8.3 d	N/A
8.4	Limitation of voltage, current or energy		Pass
8.4.1	PATIENT CONNECTIONS intended to deliver Current		N/A
	Limits in 8.4.2 not applied to currents intended to flow through body of PATIENT to produce a physiological effect during NORMAL USE	See appended Table 8.7	N/A
8.4.2	ACCESSIBLE PARTS including APPLIED PARTS	1	Pass





	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	a) Currents from, to, or between PATIENT CONNECTIONS did not exceed limits for PATIENT LEAKAGE CURRENT and PATIENT AUXILIARY CURRENT per Tables 3 and 4 when measured according to Clause 8.7.4	No patient connections	Pass
	b) LEAKAGE CURRENTS from, to, or between ACCESSIBLE PARTS did not exceed limits for TOUCH CURRENT in Cl. 8.7.3 c) when measured per Clause 8.7.4 (mA)	See appended Table 8.7	Pass
	c) Limits specified in b) not applied to parts when probability of a connection to a PATIENT, directly or through body of OPERATOR, is negligible in NORMAL USE, and the OPERATOR is appropriately instructed	See appended Table 8.7 and RM Results Table 8.4.2 c)	Pass
	- accessible contacts of connectors		N/A
	- contacts of fuseholders accessible during replacement of fuse		N/A
	- contacts of lampholders accessible after removal of lamp		N/A
	<ul> <li>parts inside an ACCESS COVER that can be opened without a TOOL, or where a TOOL is needed but the instructions for use instruct an OPERATOR other than SERVICE PERSONNEL to open the relevant ACCESS COVER</li> </ul>		N/A
	Voltage to earth or to other ACCESSIBLE PARTS did not exceed 42.4 V peak a.c. or 60 V d.c. for above parts in NORMAL or single fault condition (V a.c. or d.c.)	Evaluated in part of power supply	N/A
	Limit of 60 V d.c applied with no more than 10% peak-to-peak ripple, and when ripple larger than specified value, 42.4 V peak limit applied (V d.c.)		N/A
	Energy did not exceed 240 VA for longer than 60 s or stored energy available did not exceed 20 J at a potential up to 2 V (VA or J):		N/A
	LEAKAGE CURRENT limits referred to in 8.4.2 b) applied when voltages higher than limits in 8.4.2 c) were present (mA):		N/A
	d) Voltage and energy limits specified in c) above also applied to the following:	TIPA	Pass
	- internal parts, other than contacts of plugs, connectors and socket-outlets, touchable by test pin in Fig 8 inserted through an opening in an ENCLOSURE; and	Product was designed with construction that internal live part can't be touch by test pin, rod and hook	Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- internal parts touchable by a metal test rod with a diameter of 4 mm and a length of 100 mm, inserted through any opening on top of ENCLOSURE or through any opening provided for adjustment of pre-set controls using a TOOL		N/A
	Test pin or the test rod inserted through relevant openings with minimal force of no more than 1 N		Pass
	Test rod inserted in every possible position through openings provided for adjustment of pre-set controls that can be adjusted in NORMAL USE, with a force of 10 N		N/A
	Test repeated with a TOOL specified in instructions for use		N/A
	Test rod freely and vertically suspended through openings on top of ENCLOSURE		N/A
	e) Devices used to de-energize parts when an ACCESS COVER opened without a TOOL gives access to parts at voltages above levels permitted by this Clause comply with 8.11.1 for mains isolating switches and remain effective in SINGLE FAULT CONDITION	Need tool to open access cover.	N/A
	A TOOL is required when it is possible to prevent the devices from operating		N/A
3.4.3	Worst case voltage between pins of plug and between either supply pin and ENCLOSURE did not exceed 60 V one s after disconnecting the plug of ME EQUIPMENT or its parts (V):	Evaluated in part of power supply.	N/A
	A triggering circuit used to ensure disconnection occurred at peak of supply voltage waveform		N/A
	When voltage exceeded 60 V, calculated or measured stored charge didn't exceed 45 μC:	Evaluated in part of power supply.	N/A
3.4.4	Residual voltage of conductive parts of capacitive circuits, having become accessible after ME EQUIPMENT was de-energized after removal of ACCESS COVERS, didn't exceed 60V or calculated stored charge didn't exceed 45µC:		N/A
	A device manually discharging capacitors used when automatic discharging was not possible and ACCESS COVERS could be removed only with aid of a TOOL		N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Capacitor(s) and connected circuitry marked with symbol 24 of Table D.1 (IEC 60417-5036, DB: 2002-10), and manual discharging device specified in technical description:		N/A
8.5	Separation of parts		Pass
8.5.1	MEANS OF PROTECTION (MOP)		Pass
8.5.1.1	Two MEANS of PROTECTION provided for ME EQUIPMENT to prevent APPLIED and other ACCESSIBLE PARTS from exceeding limits in 8.4		Pass
	Each MEANS OF PROTECTION categorized as a MEANS OF PATIENT PROTECTION or a MEANS OF OPERATOR PROTECTION, taking into account Clause 4.6, and flow chart in Fig A.12	Evaluated in part of power supply - 2 MOPP provided between primary to secondary circuit	Pass
	Varnishing, enameling, oxidation, and similar protective finishes and coatings with sealing compounds replasticizing at temperatures expected during operation and sterilization disregarded as MEANS OF PROTECTION	No such construction	N/A
	Coatings and other insulation intended as a MEANS OF PROTECTION complying with IEC 60950-1:2001 considered acceptable as a MEANS OF OPERATOR PROTECTION but not automatically as a MEANS OF PATIENT PROTECTION	MOPP considered and provided.	N/A
	RISK MANAGEMENT PROCESS taken into consideration for MEANS OF PATIENT PROTECTION		Pass
	Components and wiring forming a MEANS OF PROTECTION comply with 8.10		Pass
	Insulation, CREEPAGE, CLEARANCES, components or earth connections not complying with 8.5.1.2 and 8.5.1.3 not considered as MEANS OF PROTECTION, and failure of these parts regarded as NORMAL CONDITION		Pass
8.5.1.2	MEANS OF PATIENT PROTECTION (MOPP)	MOPP considered and provided.	Pass
	Solid insulation forming a MEANS OF PATIENT PROTECTION complied with dielectric strength test of Clause 8.8 at test voltage of Table 6		Pass
	CREEPAGE and CLEARANCES forming a MEANS OF PATIENT PROTECTION complied with Table 12	Evaluated in part of power supply	Pass
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF PATIENT PROTECTION complied with CI. 8.6	Evaluated in part of power supply	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	A Y1 capacitor complying with IEC 60384-14 and having passed dielectric strength test for two MEANS OF PATIENT PROTECTION considered equivalent to one MEANS OF PATIENT PROTECTION	Evaluated in part of power supply - 2 MOPP provided between primary to secondary circuit	Pass
	Two capacitors used in series, each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance	Evaluated in part of power supply - 2 MOPP provided between primary to secondary circuit	Pass
	Voltage <sub>Total Working</sub> (V) and C <sub>Nominal</sub> (μF)		_
8.5.1.3	MEANS OF OPERATOR PROTECTION (MOOP)	Evaluated in part of power supply - 2 MOPP provided between primary to secondary circuit	N/A
	Solid insulation forming a MEANS OF OPERATOR PROTECTION complied with:		N/A
	- dielectric strength test of 8.8 at test voltage of Table 6; or	0	N/A
	- requirements of IEC 60950-1 for INSULATION CO-ORDINATION		N/A
	CREEPAGE and CLEARANCES forming a MEANS OF OPERATOR PROTECTION complied with:		N/A
	- limits of Tables 13 to 16 (inclusive); or		N/A
	- requirements of IEC 60950-1 for INSULATION CO-ORDINATION		N/A
	PROTECTIVE EARTH CONNECTIONS forming a MEANS OF OPERATOR PROTECTION complied with Cl. 8.6, or		N/A
	- requirements and tests of IEC 60950-1 for protective earthing:		N/A
	A Y2 capacitor complying with IEC 60384-14 and passing dielectric strength test for one MEANS OF OPERATOR PROTECTION considered equivalent to one MEANS OF OPERATOR PROTECTION:		N/A
	A Y1 capacitor complying with IEC 60384-14 and having passed dielectric strength test for two MEANS OF OPERATOR PROTECTION considered equivalent to two MEANS OF OPERATOR PROTECTION		N/A
	Two capacitors used in series each RATED for total WORKING VOLTAGE across the pair and have the same NOMINAL capacitance		N/A
	Voltage <sub>Total Working</sub> (V) and C <sub>Nominal</sub> (μF):		_

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Points at which impedances of components, CREEPAGE, CLEARANCES, PROTECTIVE EARTH CONNECTIONS or insulation, prevent ACCESSIBLE PARTS from exceeding limits in 8.4 examined whether a failure at any of these points is to be regarded as a NORMAL or SINGLE FAULT CONDITION		N/A
	A MEANS OF PROTECTION protecting APPLIED PARTS, or parts identified by 4.6 as parts subject to the same requirements, considered MEANS OF PATIENT PROTECTION		N/A
	A MEANS OF PROTECTION protecting other parts considered MEANS OF OPERATOR PROTECTION:		N/A
8.5.2	Separation of PATIENT CONNECTIONS		N/A
8.5.2.1	PATIENT CONNECTIONS of F-TYPE APPLIED PART separated from all other parts by equivalent to one MEANS OF PATIENT PROTECTION for a WORKING VOLTAGE equal to maximum MAINS VOLTAGE and complied with limit for PATIENT LEAKAGE CURRENT at 110 % of max. MAINS VOLTAGE:	No PATIENT CONNECTIONS provided	N/A
	Separation requirement not applied between multiple functions of a single F-TYPE APPLIED PART	No F-TYPE applied part	N/A
	PATIENT CONNECTIONS treated as one APPLIED PART in the absence of electrical separation between PATIENT CONNECTIONS of same or another function		N/A
	MANUFACTURER has defined if multiple functions are to be considered as all within one APPLIED PART or as multiple APPLIED PARTS . :		N/A
	Classification as TYPE BF, CF, or DEFIBRILLATION-PROOF applied to one entire APPLIED PART		N/A
	LEAKAGE CURRENT tests conducted per 8.7.4:		7 N/A
	Dielectric strength test conducted per 8.8.3:		N/A
	CREEPAGE and CLEARANCES measured per 8.9 and Tables 11 to 16 as applicable		N/A
	A protective device connected between PATIENT CONNECTIONS of an F-TYPE APPLIED PART and ENCLOSURE to protect against excessive voltages did not operate below 500 V r.m.s		N/A
8.5.2.2	PATIENT CONNECTIONS of a TYPE B APPLIED PART not PROTECTIVELY EARTHED are separated by one MEANS OF PATIENT PROTECTION from metal ACCESSIBLE PARTS not PROTECTIVELY EARTHED:		Pass





	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	except when metal ACCESSIBLE PART is physically close to APPLIED PART and can be regarded as a part of APPLIED PART; and		N/A
	- RISK that metal ACCESSIBLE PART will make contact with a source of voltage or LEAKAGE CURRENT above permitted limits is acceptably low		N/A
77/4	LEAKAGE CURRENT tests conducted per 8.7.4	See appended table 8.7	Pass
SID	Dielectric strength test conducted per 8.8.3:	See appended table 8.8.3	Pass
	Relevant CREEPAGE and CLEARANCES measured per 8.9 and Tables 11 to 16 as applicable		N/A
	The RISK MANAGEMENT FILE reviewed	See appended RM Results Table 8.5.2.2	Pass
8.5.2.3	A connector on a PATIENT lead located at the end PATIENT, with conductive part not separated from one MEANS OF PATIENT PROTECTION for a WORKING V MAINS VOLTAGE	n all PATIENT CONNECTIONS by	N/A
	- cannot be connected to earth or hazardous voltage while the PATIENT CONNECTIONS are in contact with PATIENT:		N/A
	- conductive part of connector not separated from all PATIENT CONNECTIONS did not come into contact with a flat conductive plate of not less than 100 mm diameter		N/A
	CLEARANCE between connector pins and a flat surface is at least 0.5 mm		N/A
	- conductive part pluggable into a mains socket protected from making contact with parts at MAINS VOLTAGE by insulation with a CREEPAGE DISTANCE of at least 1.0 mm, a 1500 V dielectric strength and complying with 8.8.4.1		N/A
	- required test finger did not make electrical contact with conductive part when applied against access openings with a force of 10 N, except when RISK MANAGEMENT PROCESS indicated no unacceptable RISK existed from contact with objects other than a mains socket or a flat surface:		N/A
3.5.3	MAXIMUM MAINS VOLTAGE		Pass
	- MAXIMUM MAINS VOLTAGE determined to be the highest RATED supply voltage for single-phase or d.c. SUPPLY MAINS powered ME EQUIPMENT, as well as INTERNALLY POWERED ME EQUIPMENT with a means of connection to a SUPPLY MAINS (V):	240 V ac	Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
		7	174
	When less than 100 V, MAXIMUM MAINS VOLTAGE was 250 V		N/A
	- MAXIMUM MAINS VOLTAGE was the highest RATED phase to neutral supply voltage for poly-phase ME EQUIPMENT (V):	Not poly-phase ME EQUIPMENT	N/A
	- for other INTERNALLY POWERED ME EQUIPMENT, maximum mains voltage was 250 V		N/A
8.5.4	WORKING VOLTAGE		Pass
	- Input supply voltage to ME EQUIPMENT was RATED voltage or voltage within RATED range resulting in highest measured value (V):	240 V ac	Pass
	- WORKING VOLTAGE for d.c. voltages with superimposed ripple was average value when peak-to-peak ripple less than 10% of average value or peak voltage when peak-to-peak ripple exceeding 10% of average value (V)::		N/A
	- WORKING VOLTAGE for each MEANS OF PROTECTION forming DOUBLE INSULATION was voltage DOUBLE INSULATION, as a whole, subjected to (V):	See Insulation Diagram and To insulation diagram Table - Evaluated in part of power supply	Pass
	- Intentional or accidental earthing of PATIENT regarded as a NORMAL CONDITION for WORKING VOLTAGE involving a PATIENT CONNECTION not connected to earth	No patient connections	N/A
	- WORKING VOLTAGE between PATIENT CONNECTIONS of an F-TYPE APPLIED PART and ENCLOSURE was highest voltage appearing across insulation in NORMAL USE including earthing of any part of APPLIED PART (V):		N/A
	WORKING VOLTAGE for DEFIBRILLATION-PROOF APPLIED PARTS determined disregarding possible presence of defibrillation voltages	No Defibrillation-proof applied parts	N/A
	WORKING VOLTAGE was equal to resonance voltage in case of motors provided with capacitors between the point where a winding and a capacitor are connected together and a terminal for external conductors (V)::	No motor provided	N/A
8.5.5	DEFIBRILLATION-PROOF APPLIED PARTS		N/A
8.5.5.1	Classification "DEFIBRILLATION-PROOF APPLIED PART" applied to one APPLIED PART in its entirety, but not separate functions of same APPLIED PART		N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Possibility of an OPERATOR receiving a shock from such parts taken into consideration in RISK MANAGEMENT PROCESS		N/A
	Isolation of PATIENT CONNECTIONS of a DEFIBRILLATION-PROOF APPLIED PART from other parts of ME EQUIPMENT accomplished as follows:		N/A
	a) No hazardous electrical energies appear during a discharge of cardiac defibrillator:		N/A
	b) ME EQUIPMENT complied with relevant requirements of this standard, providing BASIC SAFETY and ESSENTIAL PERFORMANCE following exposure to defibrillation voltage, and recovery time stated in ACCOMPANYING DOCUMENTS:		N/A
8.5.5.2	Means provided to limit energy delivered to a 100 $\Omega$ load to at least 90% of energy delivered to this load with ME EQUIPMENT disconnected:	See appended Table 8.5.5.2	N/A
3.6	Protective and functional earthing and potential	equalization of ME EQUIPMENT	N/A
3.6.1	Requirements of 8.6.2 to 8.6.8 applied		N/A
	Parts complying with IEC 60950-1 for protective earthing and serving as MEANS OF OPERATOR PROTECTION but not PATIENT PROTECTION exempted from requirements of 8.6.2 to 8.6.8	No MOOP	N/A
8.6.2	PROTECTIVE EARTH TERMINAL is suitable for connection to an external protective earthing system by a PROTECTIVE EARTH CONDUCTOR in a POWER SUPPLY CORD and a suitable plug or by a FIXED PROTECTIVE EARTH CONDUCTOR:	No such construction	N/A
	Clamping means of PROTECTIVE EARTH TERMINAL of ME EQUIPMENT for FIXED supply conductors or POWER SUPPLY CORDS comply with 8.11.4.3, and cannot be loosened without TOOL	No such construction	N/A
	Screws for internal PROTECTIVE EARTH CONNECTIONS completely covered or protected against accidental loosening from outside:	No Screw provided	N/A
	Earth pin of APPLIANCE INLET forming supply connection to ME EQUIPMENT regarded as PROTECTIVE EARTH TERMINAL	Evaluated in part of power supply	N/A
	PROTECTIVE EARTH TERMINAL not used for mechanical connection between different parts of ME EQUIPMENT or securing components not related to protective or functional earthing	Evaluated in part of power supply	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.6.3	PROTECTIVE EARTH CONNECTION not used for a moving part, except when MANUFACTURER demonstrated in RISK MANAGEMENT FILE connection will remain reliable during EXPECTED SERVICE LIFE	Evaluated in part of power supply	N/A
8.6.4	a) PROTECTIVE EARTH CONNECTIONS carried fault currents reliably and without excessive voltage drop	Evaluated in part of power supply	N/A
	b) Allowable TOUCH CURRENT and PATIENT LEAKAGE CURRENT in SINGLE FAULT CONDITION were not exceeded, when impedance of PROTECTIVE EARTH CONNECTIONS exceeded values in 8.6.4 a) and Table 8.6.4, due to limited current capability of relevant circuits	Evaluated in part of power supply	N/A
8.6.5	Surface coatings		N/A
	Poorly conducting surface coatings on conductive elements removed at the point of contact	No such construction	N/A
	Coating not removed when requirements for impedance and current-carrying capacity met		N/A
8.6.6	Plugs and sockets		N/A
	PROTECTIVE EARTH CONNECTION where connection between SUPPLY MAINS and ME EQUIPMENT or between separate parts of ME EQUIPMENT made via a plug and socket was made before and interrupted after supply connections	Evaluated in part of power supply	N/A
	- applied also where interchangeable parts are PROTECTIVELY EARTHED		N/A
8.6.7	Terminal for connection of a POTENTIAL EQUALIZATION	TION CONDUCTOR	N/A
	- Terminal is accessible to OPERATOR with ME EQUIPMENT in any position of NORMAL USE		N/A
	- RISK of accidental disconnection minimized in NORMAL USE		N/A
	– Terminal allows conductor to be detached without a TOOL		N/A
	- Terminal not used for a PROTECTIVE EARTH CONNECTION		N/A
	- Terminal marked with symbol 8 of Table D.1 (i.e., symbol IEC 60417-5021)		N/A

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	IEC 60601-1		ı
Clause	Requirement + Test	Result - Remark	Verdict
	- Instructions for use contain information on function and use of POTENTIAL EQUALIZATION CONDUCTOR together with a reference to requirements of this standard		N/A
	POWER SUPPLY CORD does not incorporate a POTENTIAL EQUALIZATION CONDUCTOR		N/A
8.6.8	FUNCTIONAL EARTH TERMINAL not used to provide a PROTECTIVE EARTH CONNECTION	No Functional Earth	N/A
8.6.9	Class II ME EQUIPMENT		N/A
	Third conductor of POWER SUPPLY CORD connected to protective earth contact of MAINS PLUG provided with CLASS II ME EQUIPMENT with isolated internal screens used as functional earth connection to the screen's FUNCTIONAL EARTH TERMINAL, coloured green and yellow	Class I equipment	N/A
	Two MEANS OF PROTECTION provided by insulation of internal screens and all internal wiring connected to them with a related explanation in technical description:		N/A
8.7	LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENT	тѕ	Pass
8.7.1	a) Electrical isolation providing protection against electric shock limits currents to values in 8.7.3	See appended Table 8.7	Pass
	b) Specified values of EARTH LEAKAGE, TOUCH, PATIENT LEAKAGE, and PATIENT AUXILIARY CURRENTS applied in combination of conditions in appended Table 8.7:	See appended Table 8.7	Pass
8.7.2	Allowable values specified in 8.7.3 applied under SINGLE FAULT CONDITIONS of 8.1 b), except		Pass
	- where insulation used in conjunction with a PROTECTIVE EARTH CONNECTION, insulation short circuited only under conditions in 8.6.4 b)		N/A
	the only SINGLE FAULT CONDITION for EARTH LEAKAGE CURRENT was interruption of one supply conductor at a time		Pass
	- LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENT not measured in SINGLE FAULT CONDITION of short circuiting of one constituent part of DOUBLE INSULATION		Pass
	SINGLE FAULT CONDITIONS not applied at same time as special test conditions of MAXIMUM MAINS VOLTAGE on APPLIED PARTS and non-PROTECTIVELY EARTHED parts of ENCLOSURE		Pass
8.7.3	Allowable Values		Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	a) Allowable values in 8.7.3 b), c), and d) measured based on, and are relative to currents in Fig 12 a), or by a device measuring frequency contents of currents as in Fig 12 b.:	See appended Table 8.7	Pass
	b) Allowable values of PATIENT LEAKAGE and AUXILIARY CURRENTS are according to Tables 3 & 4, and values of a.c. are relative to currents having a frequency not less than 0.1Hz	See appended Table 8.7	Pass
	c) Touch current did not exceed 100 µA in NORMAL CONDITION and 500 µA in SINGLE FAULT CONDITION (I <sub>TNC</sub> , I <sub>TSFC</sub> ):	See appended Table 8.7	Pass
	d) EARTH LEAKAGE CURRENT did not exceed 5 mA in NORMAL CONDITION and 10 mA in SINGLE FAULT CONDITION (I <sub>ENC</sub> , I <sub>ESFC</sub> ):	See appended Table 8.7	Pass
	Higher values of EARTH LEAKAGE CURRENT permitted for PERMANENTLY INSTALLED ME EQUIPMENT connected to a supply circuit supplying only this ME EQUIPMENT according to local regulations or IEC 60364-7-710:	Not permanently installed ME equipment.	N/A
	e) LEAKAGE CURRENTS, regardless of waveform and frequency, did not exceed 10 mA r.m.s. in NORMAL or in SINGLE FAULT CONDITION (measured with a non-frequency-weighted device:	See appended Table 8.7	Pass
8.7.4	LEAKAGE and PATIENT AUXILIARY CURRENTS measurements:	See appended Table 8.7	N/A
8.8	Insulation	70	Pass
8.8.1	Insulation relied on as MEANS OF PROTECTION, including REINFORCED INSULATION and insulation between parts of opposite polarity of MAINS PART ON SUPPLY MAINS side of mains fuse or OVER-CURRENT RELEASE		Pass
	Insulation exempted from test (complies with clause 4.8)	IEC 60601-1: 2005 and ANSI/ AAMI ES60601 of Certified Power Supply.	Pass
	Insulation forming MEANS OF OPERATOR PROTECTION and complying with IEC 60950-1 for INSULATION CO-ORDINATION not tested as in 8.8	No MOOP	N/A
8.8.2	Distance through solid insulation or use of thin sheet material		N/A
	Solid insulation forming SUPPLEMENTARY OR REINFORCED INSULATION for a PEAK WORKING VOLTAGE greater than 71 V provided with:		N/A
7	a) 0.4 mm, min, distance through insulation, or		N/A

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Requirement + Test	Result - Remark	Verdict
b) does not form part of an ENCLOSURE and not subject to handling or abrasion during NORMAL USE, and comprised of:		N/A
at least two layers of material, each passed the appropriate dielectric strength test, or		N/A
three layers of material, for which all combinations of two layers together passed the appropriate dielectric strength test		N/A
Dielectric strength test for one or two layers was same as for one MEANS OF PROTECTION for SUPPLEMENTARY INSULATION		N/A
Dielectric strength test for one or two layers was same as for two MEANS OF PROTECTION for REINFORCED INSULATION		N/A
BASIC, SUPPLEMENTARY, and REINFORCED INSULATION required between windings of wound components separated by interleaved insulation complying with a) or b), or both, except when	Evaluated in part of power supply	N/A
c) Wire with solid insulation, other than solvent based enamel, complying with a)	No such construction	N/A
d) Wire with multi-layer extruded or spirally wrapped insulation complying with b) and complying with Annex L	Evaluated in part of power supply	N/A
e) Finished wire with spirally wrapped or multi- layer extruded insulation, complying with Annex L	Evaluated in part of power supply	N/A
BASIC INSULATION: minimum two wrapped layers or one extruded layer		N/A
- SUPPLEMENTARY INSULATION: minimum two layers, wrapped or extruded		N/A
- REINFORCED INSULATION: minimum three layers, wrapped or extruded		N/A
In d) and e), for spirally wrapped insulation with CREEPAGE DISTANCES between layers less than in Table 12 or 16 (Pollution Degree 1) depending on type of insulation, path between layers sealed as a cemented joint in 8.9.3.3 and test voltages of TYPE TESTS in L.3 equal 1.6	Evaluated in part of power supply	N/A
	b) does not form part of an ENCLOSURE and not subject to handling or abrasion during NORMAL USE, and comprised of:  - at least two layers of material, each passed the appropriate dielectric strength test, or  - three layers of material, for which all combinations of two layers together passed the appropriate dielectric strength test  Dielectric strength test for one or two layers was same as for one MEANS OF PROTECTION for SUPPLEMENTARY INSULATION  Dielectric strength test for one or two layers was same as for two MEANS OF PROTECTION for REINFORCED INSULATION required between windings of wound components separated by interleaved insulation complying with a) or b), or both, except when  c) Wire with solid insulation, other than solvent based enamel, complying with a)  d) Wire with multi-layer extruded or spirally wrapped insulation complying with b) and complying with Annex L  - BASIC INSULATION: minimum two wrapped layers or one extruded layer  - SUPPLEMENTARY INSULATION: minimum two layers, wrapped or extruded  In d) and e), for spirally wrapped insulation with CREEPAGE DISTANCES between layers less than in Table 12 or 16 (Pollution Degree 1) depending on type of insulation, path between layers sealed as a cemented joint in 8.9.3.3 and	b) does not form part of an ENCLOSURE and not subject to handling or abrasion during NORMAL USE, and comprised of:  — at least two layers of material, each passed the appropriate dielectric strength test, or  — three layers of material, for which all combinations of two layers together passed the appropriate dielectric strength test for one or two layers was same as for one MEANS OF PROTECTION for SUPPLEMENTARY INSULATION  Dielectric strength test for one or two layers was same as for two MEANS OF PROTECTION for REINFORCED INSULATION  BASIC, SUPPLEMENTARY, and REINFORCED INSULATION required between windings of wound components separated by interleaved insulation complying with a) or b), or both, except when  c) Wire with solid insulation, other than solvent based enamel, complying with a)  d) Wire with multi-layer extruded or spirally wrapped insulation complying with b) and complying with Annex L  e) Finished wire with spirally wrapped or multi-layer extruded insulation, complying with Annex L  e) Finished wire with spirally wrapped or multi-layer extruded insulation, complying with Annex L  - BASIC INSULATION: minimum two wrapped layers or one extruded layer  — SUPPLEMENTARY INSULATION: minimum two layers, wrapped or extruded  — REINFORCED INSULATION: minimum three layers, wrapped or extruded  In d) and e), for spirally wrapped insulation with creep-AGE DISTANCES between layers less than in Table 12 or 16 (Pollution Degree 1) depending on type of insulation, path between layers sealed as a cemented joint in 8.9.3.3 and

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Protection against mechanical stress provided where two insulated wires or one bare and one insulated wire are in contact inside wound component, crossing at an angle between 45° and 90° and subject to winding tension:	Evaluated in part of power supply	N/A
	Finished component complied with routine dielectric strength tests of 8.8.3:	Evaluated in part of power supply	N/A
	Tests of Annex L not repeated since material data sheets confirm compliance	Evaluated in part of power supply	N/A
8.8.3	Dielectric Strength		Pass
	Solid insulating materials with a safety function withstood dielectric strength test voltages:	See appended Table 8.8.3	Pass
8.8.4	Insulation other than wire insulation		Pass
8.8.4.1	Resistance to heat retained by all insulation and insulating partition walls during EXPECTED SERVICE LIFE OF ME EQUIPMENT		Pass
	ME EQUIPMENT and RISK MANAGEMENT FILE examined in conjunction with resistance to moisture, dielectric strength, and mechanical strength tests	See appended RM Results Table 8.8.4.1	Pass
	Satisfactory evidence of compliance provided by manufacturer for resistance to heat	See appended RM Results Table 8.8.4.1	Pass
	Tests conducted in absence of satisfactory evidence for resistance to heat:		Pass
	a) ENCLOSURE and other external parts of insulating material, except insulation of flexible cords and parts of ceramic material, subjected to ball-pressure test using apparatus of Fig 21	See appended Table 8.8.4.1	Pass
	b) Parts of insulating material supporting uninsulated parts of MAINS PART subjected to ball-pressure test in a), except at 125 °C ± 2 ° C or ambient indicated in technical description ±2°C plus temperature rise determined during test of 11.1 of relevant part, if higher (°C):	Evaluated in part of power supply	N/A
	Test not performed on parts of ceramic material, insulating parts of commutators, brush-caps, and similar, and on coil formers not used as REINFORCED INSULATION	No such construction	N/A
8.8.4.2	Resistance to environmental stress	NV/A	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Insulating characteristics and mechanical strength of all MEANS OF PROTECTION not likely to be impaired by environmental stresses including deposition of dirt resulting from wear of parts within EQUIPMENT, potentially reducing CREEPAGE and CLEARANCES below 8.9	No such construction	N/A
	Ceramic and similar materials not tightly sintered, and beads alone not used as SUPPLEMENTARY OF REINFORCED INSULATION	No such construction	N/A
	Insulating material with embedded heating conductors considered as one MEANS OF PROTECTION but not two MEANS OF PROTECTION	No such construction	N/A
	Parts of natural latex rubber aged by suspending samples freely in an oxygen cylinder containing commercial oxygen to a pressure of 2.1 MPa ± 70 kPa, with an effective capacity of at least 10 times volume of samples	No natural latex rubber provided	N/A
	There were no cracks visible to naked eyes after samples kept in cylinder at 70 °C ± 2 °C for 96h, and afterwards, left at room temperature for at least 16h		N/A
8.9	CREEPAGE DISTANCES and AIR CLEARANCES		Pass
8.9.1.1	CREEPAGE DISTANCES and AIR CLEARANCES are ≥ to values in Tables 11 to 16 (inclusive), except as specified in Clauses 8.9.1.2 to 8.9.1.15	Tables 12 (distance for MOPP) are considered	Pass
8.9.1.2	Tables 11 to 16 (inclusive) not applied to CREEPAGE and CLEARANCES forming MEANS OF OPERATOR PROTECTION per IEC 60950-1 for INSULATION CO-ORDINATION and used under conditions compliance was tested	No such construction	N/A
8.9.1.3	Specified min CLEARANCE applied as min CREEPAGE for CREEPAGE DISTANCES across glass, mica, ceramic and other inorganic insulating materials with similar tracking characteristics	No such material	N/A
8.9.1.4	When min CREEPAGE derived from Tables 11 to 16 (inclusive) was less than min applicable CLEARANCE, value of min CLEARANCE applied as min CREEPAGE DISTANCE		Pass
8.9.1.5	ME EQUIPMENT RATED to operate at an altitude of 2000 m		N/A
W	ME EQUIPMENT RATED to operate at an altitude specified by MANUFACTURER (m)	3000 m	Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Operating altitude corresponding to actual air pressure for ME EQUIPMENT intended for pressurized environments (e.g., aircraft) used to determine multiplication factor from Table 8, and AIR CLEARANCE was multiplied by this factor		Pass
	CREEPAGE DISTANCES not subjected to multiplication factors, but were at least as large as the resulting value for AIR CLEARANCE		Pass
8.9.1.6	When WORKING VOLTAGE was between those in Tables 11 to 16 (inclusive), CREEPAGE and CLEARANCES calculated as follows:		Pass
	- CREEPAGE DISTANCES determined by linear interpolation between the nearest two values, and the calculated spacing rounded off to the next higher 0.1 mm increment (mm):	See Insulation Diagram and To insulation diagram Table.	Pass
	- CLEARANCES for PEAK WORKING VOLTAGES above 2800 V peak or d.c. determined by linear interpolation between the nearest two values, and the calculated spacing rounded off to the next higher 0.1 mm increment (mm):	Evaluated in part of power supply	N/A
	<ul> <li>for AIR CLEARANCES corresponding to PEAK WORKING VOLTAGE up to 2800 V peak or d.c., the higher of the two values applied</li> </ul>		N/A
3.9.1.7	Material groups classified in accordance with Table 9 (Material Group)		N/A
	Material group evaluated using 50 drops of solution A based on test data for material according to IEC 60112:		N/A
	Material of unknown group considered IIIb	Client didn't mention the material group, and treated as most worse condition:	Pass
8.9.1.8	Pollution degree 1: Micro-environment sealed to exclude dust and moisture	lilb	N/A
	Pollution degree 2: Micro-environment with non-conductive pollution, except occasional conductivity caused by condensation		Pass
	Pollution degree 3: Micro-environment subject to conductive pollution, or dry non-conductive pollution that could become conductive due to expected condensation		N/A
7	Pollution degree 4: Micro-environment where continuous conductivity occurs due to conductive dust, rain, or other wet conditions		N/A





IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Pollution degree 4 not used for insulation providing a MEANS OF PROTECTION		N/A
	Where insulation between MAINS PART and earth might be compromised, measures such as maintenance ensure that micro-environment is mitigated to a lower pollution degree		N/A
3.9.1.9	Overvoltage category classification; value of MAINS TRANSIENT VOLTAGE determined from overvoltage category per IEC60664-1 and NOMINAL a.c. MAINS VOLTAGE using Table 10	Evaluated in part of power supply	N/A
	V <sub>MT</sub> Peak (V):	2500	_
	V <sub>MN</sub> r.m.s (V):	300	_
8.9.1.10	AIR CLEARANCE for MAINS PARTS (operating on RATED MAINS VOLTAGES up to 300 V) were values for r.m.s. or d.c. RATED MAINS VOLTAGE in Table 13 plus additional CLEARANCE in Table 14 for PEAK WORKING VOLTAGE	Tables 12 (distance for MOPP) are considered	Pass
3.9.1.11	SUPPLY MAINS overvoltage category II applied according to IEC 60664-1	Overvoltage category II	Pass
	For ME EQUIPMENT intended for overvoltage category III, Tables 13 to 15 (inclusive) not used for clearance, instead values in the next MAINS TRANSIENT VOLTAGE column upwards used		N/A
	When PATIENT protection (Table 12) is required for use of ME EQUIPMENT on overvoltage category III SUPPLY MAINS, guidance provided on values required in the rationale for CI. 8.9 used		N/A
8.9.1.12	A SECONDARY CIRCUIT derived from a SUPPLY MAINS, normally, considered to be overvoltage category I according to IEC 60664-1 when the MAINS PART is overvoltage category II (Table 15)	For Monitor: 12Vdc	Pass
	Table 15 applied to earthed SECONDARY CIRCUIT or INTERNALLY POWERED ME EQUIPMENT	Evaluated in part of power supply	N/A
	Requirements for primary circuits in Tables 13 and 14 used for an unearthed SECONDARY CIRCUIT derived from a SUPPLY MAINS		N/A
	Table 15 applied when SECONDARY CIRCUIT was separated from MAINS PART by a functionally earthed or PROTECTIVELY EARTHED metal screen or transients in SECONDARY CIRCUIT were below the levels expected for overvoltage category I		N/A
7	Table 15 column for circuits not subject to transient overvoltages applied to:		N/A







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- d.c. SECONDARY CIRCUITS reliably connected to earth and have capacitive filtering limiting peak-to-peak ripple to 10 % of d.c. voltage, and	Evaluated in part of power supply	N/A
	- circuits in Internally Powered Me Equipment		N/A
8.9.1.13	For PEAK WORKING VOLTAGES above 1400 V peak or d.c. Table 15 not applied since all the following conditions were met:	Evaluated in part of power supply	N/A
	- CLEARANCE was at least 5 mm	N/A	N/A
	- insulation complied with dielectric strength test of 8.8.3 using an a.c. test voltage with an r.m.s. value equal to 1.06 times PEAK WORKING VOLTAGE, or		N/A
	- a d.c. test voltage equal to peak value of a.c. test voltage with an r.m.s. value equal to 1.06 times PEAK WORKING VOLTAGE, and	A.	N/A
	- CLEARANCE path was partly or entirely through air or along the surface of an insulating material of material group I		N/A
	Dielectric strength test conducted only across part(s) of the path that are through air when CLEARANCE path was also partly along surface of a non- group I material		N/A
8.9.1.14	Minimum CREEPAGE DISTANCES for two MEANS OF OPERATOR PROTECTION obtained by doubling values in Table 16 for one MEANS OF OPERATOR PROTECTION		N/A
8.9.1.15	CREEPAGE DISTANCES and AIR CLEARANCES for DEFIBRILLATION-PROOF APPLIED PARTS are 4 mm or more to meet 8.5.5.1	No defibrillation-proof applied parts	N/A
8.9.2	a) Short circuiting of each single one of CREEPAGE DISTANCES and CLEARANCES in turn did not result in a HAZARDOUS SITUATION for insulation in MAINS PART between parts of opposite polarity, therefore, min CREEPAGE and CLEARANCES not applied:	Evaluated in part of power supply	N/A
	b) Contribution to CREEPAGE DISTANCES of grooves or air gaps less than 1 mm wide limited to widths		N/A
	c) Relative positioning of CLEARANCE providing a MEANS OF PROTECTION is such that the relevant parts are rigid and located by molding, or there is no reduction of a distance below specified value by deformation or movement of parts	Evaluated in part of power supply	N/A





	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Normal or likely limited movements of relevant parts taken into consideration when calculating minimum AIR CLEARANCE		N/A
8.9.3	Spaces filled by insulating compound		N/A
8.9.3.1	Only solid insulation requirements applied where distances between conductive parts filled with insulating compound were such that CLEARANCES and CREEPAGE DISTANCES don't exist		N/A
30	Thermal cycling, humidity preconditioning, and dielectric strength tests in 8.9.3.2 and 8.9.3.4 or 8.9.3.3 and 8.9.3.4 conducted		N/A
8.9.3.2	For insulating compound forming solid insulation between conductive parts, a single sample subjected to thermal cycling PROCEDURE of 8.9.3.4 followed by humidity preconditioning per 5.7 (for 48 hours), followed by dielectric strength test (clause 8.8.3), test voltage multiplied by 1.6:		N/A
	Cracks or voids in insulating compound affecting homogeneity of material didn't occur		N/A
8.9.3.3	Where insulating compound forms a cemented joint with other insulating parts, three samples tested for reliability of joint		N/A
	A winding of solvent-based enameled wire replaced for the test by a metal foil or by a few turns of bare wire placed close to cemented joint, and three samples tested as follows:		N/A
	- One sample subjected to thermal cycling PROCEDURE of 8.9.3.4, and immediately after the last period at highest temperature during thermal cycling, it was subjected to dielectric strength test of 8.8.3 except at 1.6 times the test voltage		N/A
	- The other two samples subjected to humidity preconditioning of 5.7, except for 48 hours only followed by a dielectric strength test of 8.8.3 at 1.6 times the test voltage		N/A
8.9.3.4	One sample containing the cemented joint subjected to a sequence of temperature cycling tests for 10 times		N/A
8.10	Components and wiring		Pass
8.10.1	Components of ME EQUIPMENT likely to result in an unacceptable RISK by their movements mounted securely as indicated in RISK MANAGEMENT FILE	See appended RM Results Table 8.10.1	Pass







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
8.10.2	Conductors and connectors of ME EQUIPMENT adequately secured or insulated to prevent accidental detachment in a HAZARDOUS SITUATION:	See appended RM Results Table 8.10.2	Pass
	Conductors and connectors of ME EQUIPMENT when breaking free at their joint are not capable of touching circuit points resulting in a HAZARDOUS SITUATION as indicated in RISK MANAGEMENT FILE	Considered	Pass
	Breaking free of one means of mechanical restraint considered a SINGLE FAULT CONDITION	Considered	Pass
	Stranded conductors are not solder-coated when secured by clamping means to prevent HAZARDOUS SITUATIONS due to poor contact	No such construction	N/A
8.10.3	Flexible cords detachable without a TOOL used to interconnect different parts of ME EQUIPMENT provided with means for connection to comply with requirements for metal ACCESSIBLE PARTS of 8.4 when a connection is loosened or broken as shown by measurement or using test finger	No such construction	N/A
8.10.4	Cord-connected HAND-HELD parts and cord-connectes	ected foot-operated control	N/A
8.10.4.1	Control devices of ME EQUIPMENT and their connection cords contain only conductors and components operating at 42.4 V peak a.c., max, or 60 V d.c. in circuits isolated from MAINS PART by two MEANS OF PROTECTION	No Cord-connected HAND- HELD parts and cord- connected foot-operated control devices	N/A
	d.c. limit of 60 V applied to d.c. with no more than 10 % peak-to-peak ripple		N/A
	42.4 V peak limit applied when ripple exceeded 10 % peak-to-peak limit	A. F.	N/A
8.10.4.2	Connection and anchorage of a flexible cord to a HAND-HELD or foot-operated control device of ME EQUIPMENT at both ends of cable to control device complied with 8.11.3 when breaking free or shorting between conductors could result in a HAZARDOUS SITUATION		N/A
	This requirement applied to other HAND-HELD parts when disturbance or breaking of one or more of connections could result in a HAZARDOUS SITUATION		N/A
8.10.5	Mechanical protection of wiring		Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	a) Internal cables and wiring adequately protected against contact with a moving part or from friction at sharp corners and edges where damage to insulation could result in a HAZARDOUS SITUATION:	See appended RM Results Table 8.10.5	Pass
	b) Wiring, cord forms, or components are not likely to be damaged during assembly or during opening or closing of ACCESS COVERS where such damage could result in a HAZARDOUS SITUATION as shown by manual tests and RISK MANAGEMENT FILE		Pass
8.10.6	Guiding rollers of insulated conductors prevent bending of movable insulated conductors around a radius of less than five times the outer diameter of the lead concerned in NORMAL USE	No such construction	N/A
8.10.7	a) Insulating sleeve that can only be removed by breaking or cutting, or secured at both ends, is used on internal wiring of when needed:	No such construction	N/A
	b) Sheath of a flexible cord not used as a MEANS OF PROTECTION inside ME EQUIPMENT when it is subject to mechanical or thermal stresses beyond its RATED characteristics	No such construction	N/A
	c) Insulated conductors subject to temperatures > 70 °C in NORMAL USE provided with insulation of heat-resistant material when compliance is likely to be impaired due to deterioration of insulation:	No such situation	N/A
8.11	Mains parts, components and layout		Pass
8.11.1	a) ME EQUIPMENT provided with means of electrically isolating its circuits from SUPPLY MAINS simultaneously on all poles	See appended Table 8.10	Pass
	PERMANENTLY INSTALLED ME EQUIPMENT connected to a poly-phase SUPPLY MAINS equipped with a device not interrupting neutral conductor, provided local installation conditions prevent voltage on neutral conductor from exceeding limits in 8.4.2 c)	Not Permanently installed ME equipment	N/A
	b) Means of isolation incorporated in ME EQUIPMENT, and external means described in technical description:	See appended Table 8.10	Pass
	c) A SUPPLY MAINS switch used to comply with 8.11.1 a) complies with CREEPAGE and CLEARANCES in IEC 61058-1 for a MAINS TRANSIENT VOLTAGE of 4 kV	Not Permanently installed ME equipment	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	d) A SUPPLY MAINS switch not incorporated in a POWER SUPPLY CORD or external flexible lead	Not Permanently installed ME equipment	N/A
	e) Direction of movement of actuator of a SUPPLY MAINS switch used to comply with 8.11.1 a) complies with IEC 60447	No supply mains switch	N/A
	f) A suitable plug device such as an APPLIANCE COUPLER or a flexible cord with a MAINS PLUG used in non-PERMANENTLY INSTALLED ME EQUIPMENT to isolate it from SUPPLY MAINS considered to comply with 8.11.1 a)		N/A
	g) A fuse or a semiconductor device not used as an isolating means	Provided IEC 60601-1: 2005 and ANSI/ AAMI ES60601 Certified Power Supply.	Pass
	h) ME EQUIPMENT not provided with a device causing disconnection of ME EQUIPMENT from SUPPLY MAINS by producing a short circuit resulting in operation of an overcurrent protection device	Such device is not provided	Pass
	i) Parts within ENCLOSURE of ME EQUIPMENT with a circuit > 42.4 V peak a.c. or 60 V d.c. that cannot be disconnected from its supply by an external switch or a plug device accessible at all times is protected against touch even after opening ENCLOSURE by an additional covering	Evaluated in part of power supply	N/A
	A clear warning notice is marked on outside of ME EQUIPMENT to indicate it exceeds allowable touch voltage (symbol 10 of Table D.1 is insufficient)	Not exceed allowable voltage, no warning is required	N/A
	For a part that could not be disconnected from supply by an external switch or a plug device accessible at all times, the required cover or warning notice complied with this clause		N/A
	Standard test finger of Fig 6 applied		N/A
3.11.2	MULTIPLE SOCKET-OUTLETS integral with ME EQUIPMENT complied with 16.2 d), second dash; and 16.9.2	No Multiple socket-outlets	N/A
3.11.3	POWER SUPPLY CORDS		Pass
3.11.3.1	MAINS PLUG not fitted with more than one POWER SUPPLY CORD	Evaluated in part of power supply	N/A
3.11.3.2	POWER SUPPLY CORDS are no less robust than ordinary tough rubber sheathed flexible cord (IEC 60245-1:2003, Annex A, designation 53) or ordinary polyvinyl chloride sheathed flexible cord (IEC 60227-1:1993, Annex A, design. 53):		Pass





	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Only polyvinyl chloride insulated POWER SUPPLY CORD with appropriate temperature rating used for ME EQUIPMENT having external metal parts with a temperature > 75 °C touchable by the cord in NORMAL USE:	Power supply cord used and metal parts of the outside equipment < 75 °C.	N/A
8.11.3.3	NOMINAL cross-sectional area of conductors of POWER SUPPLY CORDS of ME EQUIPMENT is not less than in Table 17 (mm² Cu)		Pass
8.11.3.4	APPLIANCE COUPLERS complying with IEC 60320- 1 are considered to comply with 8.11.3.5 and 8.11.3.6:		N/A
8.11.3.5	Cord anchorage (for APPLIANCE COUPLERS not cor	mplying with IEC 60320-1)	N/A
	a) Conductors of POWER SUPPLY CORD provided with strain relieve and insulation protected from abrasion at point of entry to ME EQUIPMENT or a MAINS CONNECTOR by a cord anchorage		N/A
	b) Cord anchorage of POWER SUPPLY CORD is made of and arranged as follows when a total insulation failure of POWER SUPPLY CORD caused conductive non-PROTECTIVELY EARTHED ACCESSIBLE PARTS to exceed limits of 8.4:		N/A
	- insulating material, or		N/A
	- metal, insulated from conductive ACCESSIBLE PARTS non-PROTECTIVELY EARTHED by a MEANS OF PROTECTION, or		N/A
	- metal provided with an insulating lining affixed to cord anchorage, except when it is a flexible bushing forming part of the cord guard in 8.11.3.6, and complying with the requirements for one MEANS OF PROTECTION		N/A
	c) Cord anchorage prevents cord from being clamped by a screw bearing directly on cord insulation		N/A
	d) Screws to be operated when replacing POWER SUPPLY CORD do not serve to secure any components other than parts of cord anchorage		N/A
	e) Conductors of POWER SUPPLY CORD arranged to prevent PROTECTIVE EARTH CONDUCTOR against strain as long as phase conductors are in contact with their terminals when cord anchorage fails		N/A
	f) Cord anchorage prevents POWER SUPPLY CORD from being pushed into ME EQUIPMENT OF MAINS CONNECTOR		N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Conductors of POWER SUPPLY CORD supplied by MANUFACTURER disconnected from terminals or from MAINS CONNECTOR and cord subjected 25 times to a pull applied with no jerks, each time for 1 s, on sheath of the value in Table 18:		N/A
	Cord subjected to a torque in Table 18 for 1 min immediately after pull tests		N/A
	Cord anchorage did not allow cord sheath to be longitudinally displaced by more than 2 mm or conductor ends to move over a distance of more than 1 mm from their connected position		N/A
	CREEPAGE and CLEARANCES not reduced below limits in 8.9		N/A
	It was not possible to push the cord into ME EQUIPMENT OF MAINS CONNECTOR to an extent the cord or internal parts would be damaged		N/A
8.11.3.6	POWER SUPPLY CORDS other than for STATIONARY ME EQUIPMENT protected against excessive bending at inlet opening of equipment or of MAINS CONNECTOR by means of an insulating cord guard or by means of an appropriately shaped opening	Not stationary ME equipment	N/A
	Cord guard complied with test of IEC 60335- 1:2001, Clause 25.14, or		N/A
	ME EQUIPMENT placed such that axis of cord guard projected at an angle of 45° with cord free from stress, and a mass equal 10 x D <sup>2</sup> gram attached to the free end of cord (g):		N/A
	Cord guard of temperature-sensitive material tested at 23 °C ± 2 °C, and flat cords bent in the plane of least resistance		N/A
	Curvature of the cord radius, immediately after mass attached, was not less than 1.5 x D:		N/A
8.11.4	Mains terminal devices		N/A
8.11.4.1	PERMANENTLY INSTALLED and ME EQUIPMENT with non-DETACHABLE POWER SUPPLY CORD replaceable by SERVICE PERSONNEL provided with MAINS TERMINAL DEVICES ensuring reliable connection	Appliance inlet provided	N/A
	Terminals alone are not used to keep conductors in position, except when barriers are provided such that CREEPAGE and CLEARANCES cannot be reduced below 8.9 if any conductor breaks away		N/A





	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Terminals of components other than terminal blocks complying with requirements of this Clause and marked according to 7.3.7 used as terminals intended for external conductors		N/A
	Screws and nuts clamping external conductors do not serve to secure any other component, except they also clamp internal conductors when unlikely to be displaced when fitting the supply conductors		N/A
8.11.4.2	Arrangement of MAINS TERMINAL DEVICES		N/A
	a) Terminals provided for connection of external cords or POWER SUPPLY CORDS together with PROTECTIVE EARTH TERMINAL grouped to provide convenient means of connection	AC inlet is used on power adapter	N/A
	b) PROTECTIVE EARTH CONDUCTOR connections complied with 8.6		N/A
	c) Marking of MAINS TERMINAL DEVICES complied with 7.3		N/A
	d) Mains terminal devices not accessible without use of a TOOL		N/A
	e) A MEANS OF PROTECTION are not short circuited when one end of a flexible conductor with NOMINAL cross-sectional area is stripped 8 mm and a single free wire is bent in each possible direction		N/A
8.11.4.3	Internal wiring not subjected to stress and CREEPAGE and CLEARANCES not reduced below 8.9 after fastening and loosening a conductor of largest cross-sectional area 10 times		N/A
8.11.4.4	Terminals with clamping means for a rewirable flexible cord did not require special preparation of conductors and conductors were not damaged and did not slip out when clamping means tightened as verified by test of 8.11.3.4		N/A
8.11.4.5	Adequate space provided inside ME EQUIPMENT designed for FIXED wiring or a re-wirable POWER SUPPLY CORD to allow for connection of conductors, and covers fitted without damage to conductors or their insulation		N/A
	Correct connection and positioning of conductors before ACCESS COVER was fitted verified by an installation test		N/A
8.11.5	Mains fuses and OVER-CURRENT RELEASES		N/A







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	A fuse or OVER-CURRENT RELEASE provided in each supply lead for CLASS I and CLASS II ME EQUIPMENT with a functional earth connection per clause 8.6.9, and in at least one supply lead for other single-phase CLASS II ME EQUIPMENT:	Evaluated in part of power supply	N/A
	- neutral conductor not fused for PERMANENTLY INSTALLED ME EQUIPMENT	Not permanently installed ME equipment	N/A
	- fuses or OVER-CURRENT RELEASES omitted due to provision of two MEANS OF PROTECTION between all parts of opposite polarity within MAINS PART, and between all parts of MAINS PART and earth, and such provisions continued within all components	No such situation	N/A
	Effect of short-circuit fault conditions in other circuits taken into consideration before eliminating fuses or OVER-CURRENT RELEASES	6	N/A
	Protective devices have adequate breaking capacity to interrupt the maximum fault current including the available short-circuit:	Evaluated in part of power supply	N/A
	A fuse or OVER-CURRENT RELEASE not provided in a PROTECTIVE EARTH CONDUCTOR		N/A
	Fuses complying with IEC 60127 have high breaking capacity (1 500 A) and prospective short-circuit current > 35 A or 10 times current rating of the fuse, whichever is greater	No such situation	N/A
70	Justification for omission of fuses or OVER- CURRENT RELEASES IS IN RISK MANAGEMENT FILE	Evaluated in part of power supply	N/A
8.11.6	Internal wiring of the MAINS PART		N/A
	a) Cross-sectional area of internal wiring in a MAINS PART between MAINS TERMINAL DEVICE and protective devices is not less than minimum required for POWER SUPPLY CORD as in clause 8.11.3.3 (mm² Cu)	Evaluated in part of power supply	N/A
	b) Cross-sectional area of other wiring in MAINS PART and sizes of tracks on printed wiring circuits sufficient to prevent fire in case of fault currents:	Evaluated in part of power supply	N/A
	When necessary, ME EQUIPMENT connected to a SUPPLY MAINS with max available short-circuit fault, and subsequent simulation of a fault in a single insulation in MAINS PART did not result in any of the HAZARDOUS SITUATIONS in 13.1.2	Evaluated in part of power supply	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
9	PROTECTION AGAINST MECHANICAL HAZARI ME SYSTEMS	OS OF ME EQUIPMENT ANI	Pass
9.1	ME EQUIPMENT complies with Clause 4 for design and manufacture, and mechanical strength (15.3)		Pass
9.2	HAZARDS associated with moving parts		N/A
9.2.1	When ME EQUIPMENT with moving parts PROPERLY INSTALLED, used per ACCOMPANYING DOCUMENTS or under foreseeable misuse, RISKS associated with moving parts reduced to an acceptable level	No moving part	N/A
	RISK from contact with moving parts reduced to an acceptable level using protective measures, (access, function, shape of parts, energy, speed of motion, and benefits to PATIENT considered)		N/A
	RESIDUAL RISK associated with moving parts considered acceptable when exposure was needed for ME EQUIPMENT to perform its function		N/A
	Warnings marked on ME EQUIPMENT or included in instructions for use when HAZARDS persisted after implementing all reasonable protective measures		N/A
9.2.2	TRAPPING ZONE		N/A
9.2.2.1	ME EQUIPMENT with a TRAPPING ZONE complied with one or more of the following as feasible:	No Trapping zone	N/A
	- Gaps in Clause 9.2.2.2, or		N/A
	- Safe distances in Clause 9.2.2.3, or		N/A
	- GUARDS and protective measures in 9.2.2.4, or		N/A
	- Continuous activation in Clause 9.2.2.5		N/A
	Control of relevant motion complied with 9.2.2.6 when implementation of above protective measures were inconsistent with INTENDED USE of ME EQUIPMENT OF ME SYSTEM		N/A
9.2.2.2	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when gaps of TRAPPING ZONE complied with dimensions per Table 20:	No Trapping zone	N/A
9.2.2.3	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when distances separating OPERATOR, PATIENT, and others from TRAPPING ZONES exceeded values in ISO 13852	No Trapping zone	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Distances measured from expected positions of OPERATOR, PATIENT, and others near EQUIPMENT in NORMAL USE or under foreseeable misuse		N/A
9.2.2.4	GUARDS and protective measures		N/A
9.2.2.4.1	A TRAPPING ZONE considered not to present a MECHANICAL HAZARD when GUARDS and protective measures were of robust construction, not easy to bypass or render non-operational, and did not introduce additional unacceptable RISK based on results of applicable tests in 15.3 for ENCLOSURES:	No Trapping zone	N/A
9.2.2.4.2	FIXED GUARDS held in place by systems that cannot be dismantled without a TOOL		N/A
9.2.2.4.3	Movable GUARDS that can be opened without a TOOL remained attached when GUARD was open		N/A
	<ul> <li>they are associated with an interlock preventing relevant moving parts from starting to move while TRAPPING ZONE is accessible, and stops movement when the GUARD is opened,</li> </ul>		N/A
	<ul> <li>absence or failure of one of their components prevents starting, and stops moving parts</li> </ul>		N/A
	Movable GUARDS complied with all applicable tests as confirmed by review of RISK MANAGEMENT FILE		N/A
9.2.2.4.4	Protective measures provided in control system prevented moving parts from starting to move while in reach of persons:		N/A
	- protective measures prevented TRAPPING ZONE from reach, or, when it was reached, system movement stopped once ME EQUIPMENT started to move, and in the latter case, no HAZARD or damage resulted		N/A
	- when protective measure was in a SINGLE FAULT CONDITION, and an unacceptable RISK could arise, one or more emergency stopping device(s) provided		N/A
	RISK MANAGEMENT FILE reviewed and all conditions confirmed		N/A
9.2.2.5	Continuous activation		N/A
7	TRAPPING ZONE not considered to present a MECHANICAL HAZARD where impractical to make TRAPPING ZONE inaccessible when:	No Trapping zone	N/A







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
		( \ \ \	7/2
	a) movement was in OPERATOR's field of view		N/A
	b) movement of ME EQUIPMENT or its parts was possible only by continuous activation of control by OPERATOR as long as OPERATOR response to deactivate device relied upon to prevent HARM		N/A
	Manually operated movements complied with this clause since mass and velocity allowed adequate control of positioning without causing an unacceptable RISK		N/A
	c) when in a SINGLE FAULT CONDITION of continuous activation system an unacceptable RISK could arise, one or more emergency stopping device(s) provided in ME EQUIPMENT:		N/A
9.2.2.6	Speed of movement(s) positioning parts of ME EQUIPMENT OR PATIENT, when contact with ME EQUIPMENT could result in a HAZARDOUS SITUATION, limited to allow OPERATOR control of positioning without resulting in an unacceptable RISK	No Trapping zone	N/A
	Over travel (stopping distance) of such movement occurring after operation of a control to stop movement, did not result in an unacceptable RISK		N/A
9.2.3	Other HAZARDS associated with moving parts		N/A
9.2.3.1	Controls positioned, recessed, or protected by other means and could not be accidentally actuated to result in unacceptable RISK, except when ergonomic considerations for a PATIENT with special needs require otherwise	No moving parts	N/A
9.2.3.2	RISK due to over travel (past range limits) of ME EQUIPMENT parts reduced to an acceptable level, and stops or other means with mechanical strength to withstand intended loading in NORMAL USE and foreseeable misuse provided limiting measure in NORMAL and SINGLE FAULT CONDITION		N/A
9.2.4	Emergency stopping devices		N/A
	Where necessary to have one or more emergency stopping device(s), emergency stopping device complied with all the following, except for actuating switch capable of interrupting all power	No Emergency stopping devices	N/A
	a) Emergency stopping device reduced RISK to an acceptable level		N/A







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	b) Proximity and response of OPERATOR to actuate emergency stopping device could be relied upon to prevent HARM		N/A
	c) Emergency stopping device actuator was readily accessible to OPERATOR		N/A
	d) Emergency stopping device(s) are not part of normal operation of ME EQUIPMENT		N/A
	e) Emergency switching operation or stopping means neither introduced further HAZARD nor interfered with operation necessary to remove original HAZARD		N/A
	f) Emergency stopping device was able to break full load of relevant circuit, including possible stalled motor currents and the like		N/A
	g) Means for stopping of movements operate as a result of one single action		N/A
	h) Emergency stopping device provided with an actuator in red and easily distinguishable and identifiable from other controls		N/A
	i) An actuator interrupting/opening mechanical movements marked on or immediately adjacent to face of actuator with symbol 18 of Table D.1 (symbol IEC 60417-5638, DB:2002-10) or "STOP"		N/A
	j) Emergency stopping device, once actuated, maintained ME EQUIPMENT in disabled condition until a deliberate action, different from that used to actuate it, was performed		N/A
	k) Emergency stopping device is suitable for its application		N/A
9.2.5	Means provided to permit quick and safe release of PATIENT in event of breakdown of ME EQUIPMENT or failure of power supply, activation of a protective measure, or emergency stopping, and	No such construction	N/A
	- Uncontrolled or unintended movement of ME EQUIPMENT that could result in an unacceptable RISK prevented		N/A
	- Situations where PATIENT is subjected to unacceptable RISKS due to proximity of moving parts, removal of normal exit routes, or other HAZARDS prevented		N/A
<i>M</i>	Measures provided to reduce RISK to an acceptable level when after removal of counterbalanced parts, other parts of ME EQUIPMENT can move in a hazardous way		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
9.3	Rough surfaces, sharp corners and edges of ME EQUIPMENT that could result in an unacceptable RISK avoided or covered:	See appended RM Results Table 9.3	Pass
9.4	Instability HAZARDS		N/A
9.4.1	ME EQUIPMENT, other than FIXED and hand-held, for placement on a surface did not overbalance (tip over) or move unexpectedly, to the degree that it could present an unacceptable RISK to PATIENT, or OPERATOR as tested in 9.4.2 to 9.4.4		N/A
9.4.2	Instability – overbalance		N/A
9.4.2.1	ME EQUIPMENT or its parts did not overbalance when prepared per ACCOMPANYING DOCUMENTS, or when not specified, as in 9.4.2.2, and placed on a 10° inclined plane from horizontal consisting of a hard and flat surface (e.g., concrete floor covered with 2 to 4 mm thick vinyl material)	No such construction	N/A
9.4.2.2	Instability excluding transport		N/A
	ME EQUIPMENT or its parts prepared based on a) to g), inclusive, did not overbalance when placed in different positions of NORMAL USE, except transport positions, on a 5° inclined plane from horizontal (hard and flat surface)		N/A
	A warning provided, stating "Transport only under conditions described in instructions for use or marked on ME EQUIPMENT with an indication of RESIDUAL RISK if ME EQUIPMENT or its parts overbalances" when overbalance occurred during 10° inclined plane test	See appended Table 9.4.2.2	N/A
9.4.2.3	Instability from horizontal and vertical forces		N/A
	a) ME EQUIPMENT with a mass of 25 kg or more, other than FIXED ME EQUIPMENT for use on floor, did not overbalance due to pushing or resting		N/A
	Surfaces of ME EQUIPMENT where a RISK of overbalancing exists from pushing, leaning, resting etc., permanently marked with a CLEARLY LEGIBLE warning of the RISK (e.g., safety sign 5 of Table D.2, safety sign ISO 7010-P017)		N/A
	ME EQUIPMENT did not overbalance when placed on a horizontal plane, and a force of 25% of its weight, but not more than 220 N, applied in different directions, except a direction with an upward component		N/A







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	b) ME EQUIPMENT, other than FIXED ME EQUIPMENT, for use on the floor or on a table, did not overbalance due to sitting or stepping, except when a legible warning of this RISK provided on ME EQUIPMENT (e.g., safety signs 6 and 7 of Table D.2, safety signs ISO 7010- P018, or ISO 7010-P019 as appropriate)		N/A
	ME EQUIPMENT did not overbalance when placed on a horizontal plane, and a constant force of 800 N applied at the point of maximum moment to working surfaces, offering an foothold or sitting surface of a min 20 x 20 cm area, and at a height ≤ 1 m from the floor:		N/A
9.4.2.4	Castors and wheels		N/A
9.4.2.4.1	Means used for transportation of MOBILE ME EQUIPMENT (e.g., castors or wheels) did not result in an unacceptable RISK when MOBILE ME EQUIPMENT moved or parked in NORMAL USE	No such construction	N/A
9.4.2.4.2	Force required to move MOBILE ME EQUIPMENT along a hard and flat horizontal surface did not exceed 200 N applied at a height of 1 m above floor or highest point on ME EQUIPMENT when < 1 m high, except when instructions indicated more than one person needed (N):		N/A
9.4.2.4.3	MOBILE ME EQUIPMENT exceeding 45 kg configured with a SAFE WORKING LOAD, moved 10 times in forward direction over a solid vertical plane obstruction with wheels impacting the obstruction at a speed of 0.4 m/s ± 0.1 m/s for manual or with max speed for motor driven MOBILE ME EQUIPMENT		N/A
	ME EQUIPMENT went up the obstruction without overbalancing or any other unacceptable RISK as determined by examination of RISK MANAGEMENT FILE, ME EQUIPMENT and its parts:		N/A
	There was no reduction of CREEPAGE and CLEARANCES below 8.9, no access to parts exceeding limits in 8.4, and no access to moving parts capable of causing HARM, and		N/A
	- Assessment criteria in Clause 9 and 11.6 used		N/A
	Dielectric strength test of 8.8.3 conducted to evaluate integrity of solid SUPPLEMENTARY or REINFORCED INSULATION		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
	CREEPAGE DISTANCES and AIR CLEARANCES measured compared favourably with min		N/A
	distances in clause 8.9  Small chips not adversely affecting protection against electric shock or moisture, disregarded		N/A
9.4.3	Instability from unwanted lateral movement (inc	cluding sliding)	N/A
9.4.3.1	a) Brakes of power-driven MOBILE ME EQUIPMENT normally activated and could only be released by continuous actuation of a control	No Such construction	N/A
	b) MOBILE ME EQUIPMENT provided with locking means to prevent unwanted movements of ME EQUIPMENT or its parts in transport position		N/A
	c) No unacceptable RISK due to unwanted lateral movement resulted when MOBILE ME EQUIPMENT placed in its transport position or worst case NORMAL USE position with SAFE WORKING LOAD, and locking device activated, on a 10° inclined hard flat surface with castors in the worst-case position		N/A
	Following initial elastic movement, creepage, and pivoting of castors, no further movement of MOBILE ME EQUIPMENT > 50 mm (in relation to inclined plane) occurred (mm)		N/A
	RISK due to any initial movement assessed taking into consideration NORMAL USE of ME EQUIPMENT		N/A
9.4.3.2	Instability excluding transport		N/A
	a) Further movement of ME EQUIPMENT (after initial elastic movement) was less than 50 mm when MOBILE ME EQUIPMENT with a SAFE WORKING LOAD positioned on a 5° inclined hard flat surface with wheel locked or braking system activated (mm)	No Such construction	N/A
	RISK due to initial movements assessed taking into consideration NORMAL USE of ME EQUIPMENT		N/A
	b) TRANSPORTABLE OR STATIONARY ME EQUIPMENT for use on the floor and with a SAFE WORKING LOAD prepared as in 9.4.2.2 and placed on a horizontal plane with locking device activated and castors, when supplied, in their worst – case position		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Further movement of ME EQUIPMENT (after initial elastic movement), was no more than 50 mm when a force of 25 % of weight of unit, but less than 220 N, applied in different directions, except a direction with an upwards component, at highest point of ME EQUIPMENT but ≤ 1.5 m from floor:		N/A
	RISK due to initial movements assessed taking into consideration NORMAL USE of ME EQUIPMENT		N/A
9.4.4	Grips and other handling devices		N/A
	a) ME EQUIPMENT other than PORTABLE EQUIPMENT or its part with a mass of over 20 kg requiring lifting in NORMAL USE or transport provided with suitable handling means, or ACCOMPANYING DOCUMENTS specify safe lifting method, except when handling is obvious and causing HAZARDS	No such construction	N/A
	Handles, when supplied, suitably placed to enable ME EQUIPMENT or its part to be carried by two or more persons and by examination of EQUIPMENT, its part, or ACCOMPANYING DOCUMENTS		N/A
	b) PORTABLE ME EQUIPMENT with a mass > 20 kg provided with one or more carrying-handles suitably placed to enable carrying by two or more persons as confirmed by actual carrying	No such construction	N/A
	c) Carrying handles and grips and their means of attachment withstood loading test:	No such construction	N/A
9.5	Expelled parts HAZARD		N/A
9.5.1	Suitability of means of protecting against unacceptable RISK of expelled parts determined by assessment and examination of RISK MANAGEMENT FILE	No expelled part	N/A
9.5.2	Cathode ray tube(s) complied with IEC 60065:2001, Clause 18, or IEC 61965		N/A
9.6	Acoustic energy (including infra- and ultrasoun	d) and vibration	N/A
9.6.1	Human exposure to acoustic energy and vibration from ME EQUIPMENT doesn't result in unacceptable RISK as confirmed in RISK MANAGEMENT FILE including audibility of auditory alarm signals, PATIENT sensitivity, and tests of 9.6.2 and 9.6.3	No Acoustic energy produce by the device	N/A
9.6.2	Acoustic energy		N/A





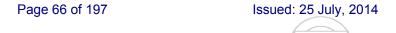
	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
9.6.2.1	PATIENT, OPERATOR, and other persons are not exposed to acoustic energy from ME EQUIPMENT in NORMAL USE, except for auditory alarm signals	No Acoustic energy produce by the device	N/A
	- 80 dBA for a cumulative exposure of 24 h over a 24 h period (dBA):		_
	- 83 dBA (when halving the cumulative exposure time) (dBA)		_
30	- 140 dB un-weighted sound pressure level for impulsive or impact acoustic energy (dB):		_
9.6.2.2	RISK MANAGEMENT FILE examined for RISKS associated with infrasound or ultrasound, when present, addressed in RISK MANAGEMENT PROCESS	No Acoustic energy produce by the device	N/A
9.6.3	Hand-transmitted vibration	\(\frac{1}{5}\)	N/A
	Means provided, except for INTENDED USE vibrations, to protect PATIENT and OPERATOR when hand-transmitted frequency-weighted r.m.s. acceleration generated in NORMAL USE exceeds specified values measured at points of hand contact with PATIENT or OPERATOR	No vibration produce by the device	N/A
	- 2.5 m/s <sup>2</sup> for a cumulative time of 8 h during a 24 h period (m/s <sup>2</sup> )		N/A
	- Accelerations for different times, inversely proportional to square root of time (m/s²):		N/A
9.7	Pressure vessels and parts subject to pneumat	ic and hydraulic pressure	N/A
9.7.1	Requirements of this clause applied to vessels and parts of ME EQUIPMENT subject to pressure resulting in rupture and unacceptable RISK	No Pressure vessels and parts subject to pneumatic and hydraulic pressure	N/A
	Parts of a pneumatic or hydraulic system used as a support system, comply with 9.8		N/A
9.7.2	Pneumatic and hydraulic parts of ME EQUIPMENT or ACCESSORIES met following requirements based on examination of RISK MANAGEMENT FILE:	No Pressure vessels and parts subject to pneumatic and hydraulic pressure	N/A
	- No unacceptable RISK resulted from loss of pressure or loss of vacuum		N/A
	No unacceptable RISK resulted from a fluid jet caused by leakage or a component failure		N/A
D	Elements of ME EQUIPMENT or an ACCESSORY, especially pipes and hoses leading to an unacceptable RISK protected against harmful external effects		N/A







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	(1774	7	17/4
	- Reservoirs and similar vessels leading to an unacceptable RISK are automatically depressurized when ME EQUIPMENT is isolated from its power supply		N/A
	Means provided for isolation, or local depressurizing reservoirs and similar vessels, and pressure indication when above not possible		N/A
	- All elements remaining under pressure after isolation of ME EQUIPMENT or an ACCESSORY from its power supply resulting in an unacceptable RISK provided with clearly identified exhaust devices, and a warning to depressurize these elements before setting or maintenance activity		N/A
9.7.3	Maximum pressure a part of ME EQUIPMENT can be subjected to in NORMAL and SINGLE FAULT CONDITIONS considered to be highest of following:	No Pressure vessels and parts subject to pneumatic and hydraulic pressure	N/A
	a) RATED maximum supply pressure from an external source		N/A
	b) Pressure setting of a pressure-relief device provided as part of assembly		N/A
	c) Max pressure that can develop by a source of pressure that is part of assembly, unless pressure limited by a pressure-relief device		N/A
9.7.4	Max pressure in NORMAL and SINGLE FAULT CONDITIONS did not exceed MAXIMUM PERMISSIBLE WORKING PRESSURE for EQUIPMENT part, except as allowed in 9.7.7, confirmed by examination of ME EQUIPMENT and RISK MANAGEMENT FILE, and by functional tests	No Pressure vessels and parts subject to pneumatic and hydraulic pressure	N/A
9.7.5	A pressure vessel withstood a HYDRAULIC TEST PRESSURE when pressure was > 50 kPa, and product of pressure and volume was more than 200 kPal	No Pressure vessels and parts subject to pneumatic and hydraulic pressure	N/A
9.7.6	Pressure-control device regulating pressure in ME EQUIPMENT with pressure-relief device completed 100,000 cycles of operation under RATED load and prevented pressure from exceeding 90 % of setting of pressure-relief device in different conditions of NORMAL USE .:	No Pressure vessels and parts subject to pneumatic and hydraulic pressure	N/A





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Clause	Requirement + Test	Result - Remark	Verdict
9.7.7	Pressure-relief device(s) used where MAXIMUM PERMISSIBLE WORKING PRESSURE could otherwise be exceeded met the following, as confirmed by MANUFACTURER'S data, ME EQUIPMENT, RISK MANAGEMENT FILE, and functional tests:	No Pressure vessels and parts subject to pneumatic and hydraulic pressure	N/A
	a) Connected as close as possible to pressure vessel or parts of system it is to protect		N/A
	b) Installed to be readily accessible for inspection, maintenance, and repair		N/A
	c) Could be adjusted or rendered inoperative without a TOOL		N/A
	d) With discharge opening located and directed as to not to release material towards any person		N/A
	e) With discharge opening located and directed as to not to deposit material on parts that could result in an unacceptable RISK		N/A
	f) Adequate discharge capacity provided to ensure that pressure will not exceed MAXIMUM PERMISSIBLE WORKING PRESSURE of system it is connected to by more than 10 % when failure occurs in control of supply pressure		N/A
	g) No shut-off valve provided between a pressure-relief device and parts it is to protect		N/A
	h) Min number of cycles of operation 100 000, except for one-time use devices (bursting disks)		N/A
9.8	HAZARDS associated with support systems		Pass
9.8.1	ME EQUIPMENT parts designed to support loads or provide actuating forces when a mechanical fault could constitute an unacceptable RISK	See appended RM Results Table 9.8.1	Pass
	Construction of support, suspension, or actuation system complied with Table 21 and TOTAL LOAD	Equipment weight: 4.07kg Safety Factor: 6 Total load: 24.42kg	Pass
	- Means of attachment of ACCESSORIES prevent possibility of incorrect attachment that could result in an unacceptable RISK	No accessories	N/A
	- Risk Analysis of support systems included HAZARDS from static, dynamic, vibration, impact and pressure loading, foundation and other movements, temperature, environmental, manufacture and service conditions		N/A





	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	ΑσιζΑ	A	17.4
	- Risk Analysis included effects of failures such as excessive deflection, plastic deformation, ductile/brittle fracture, fatigue fracture, instability (buckling), stress-assisted corrosion cracking, wear, material creep and deterioration, and residual stresses from manufacturing PROCESSES	See appended RM Results Table 9.8.1	Pass
	- Instructions on attachment of structures to a floor, wall, ceiling, included in ACCOMPANYING DOCUMENTS making adequate allowances for quality of materials used to make the connection and list the required materials		N/A
	Additional instructions provided on checking adequacy of surface of structure parts will be attached to		N/A
9.8.2	Support systems maintain structural integrity during EXPECTED SERVICE LIFE, and TENSILE SAFETY FACTORS are not less than in Table 21, except when an alternative method used to demonstrate structural integrity throughout EXPECTED SERVICE LIFE, or for a foot rest		Pass
	Compliance with 9.8.1 and 9.8.2 confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications and material processing:	See appended RM Results Table 9.8.2	Pass
	When test results were part of information, testing consisted of application of a test load to support assembly equal to TOTAL LOAD times required TENSILE SAFETY FACTOR while support assembly under test was in equilibrium after 1 min, or not resulted in an unacceptable RISK:		N/A
9.8.3	Strength of PATIENT or OPERATOR support or susp	pension systems	N/A
9.8.3.1	ME EQUIPMENT parts supporting or immobilizing PATIENTS minimize RISK of physical injuries and accidental loosening of secured joints	No patient or operator support systems	N/A
	SAFE WORKING LOAD OF ME EQUIPMENT or its parts supporting or suspending PATIENTS or OPERATORS is sum of mass of PATIENTS or mass of OPERATORS plus mass of ACCESSORIES supported by ME EQUIPMENT or its parts		N/A
	Supporting and suspending parts for adult human PATIENTS OF OPERATORS designed for a PATIENT OF OPERATOR with a min mass of 135 kg and ACCESSORIES with a min mass of 15 kg, unless stated by MANUFACTURER		N/A

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Clause	Requirement + Test	Result - Remark	Verdict		
	Maximum mass of PATIENT included in SAFE WORKING LOAD of ME EQUIPMENT or its parts supporting or suspending PATIENTS adapted when MANUFACTURER specified applications		N/A		
	Max allowable PATIENT mass < 135 kg marked on ME EQUIPMENT and stated in ACCOMPANYING DOCUMENTS		N/A		
	Max allowable PATIENT mass > 135 kg stated in ACCOMPANYING DOCUMENTS		N/A		
	Examination of markings, ACCOMPANYING DOCUMENTS, and RISK MANAGEMENT FILE confirmed compliance		N/A		
9.8.3.2	Part of SAFE WORKING LOAD representing mass of PATIENTS or OPERATORS is distributed on support/suspension surface representing human body as in Fig A.19	No patient or operator support systems	N/A		
	Part of SAFE WORKING LOAD representing mass of ACCESSORIES deployed as in NORMAL USE and, when not defined, at worst case position permitted by configuration or ACCESSORIES attachment on support/suspension parts		N/A		
	a) Entire mass of PATIENT OF OPERATOR distributed over an area of 0.1 m <sup>2</sup> on a foot rest temporarily supporting a standing PATIENT OF OPERATOR		N/A		
	Compliance confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications of materials and their processing, and tests:		N/A		
	PATIENT support/suspension system positioned horizontally in most disadvantageous position in NORMAL USE, and a mass 2 x 135 kg or twice intended person's load (the greater used), applied to foot rest over an area of 0.1 m <sup>2</sup> for 1 min (Kg)		N/A		
	Damage or deflection resulting in an unacceptable RISK did not occur on foot rest and its secured joints		N/A		
	b) Deflection of a support surface from PATIENT or OPERATOR loading on an area of support/ suspension where a PATIENT or OPERATOR can sit did not result in an unacceptable RISK		N/A		
	Compliance confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications of materials and their processing, and by a test		N/A		

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Clause	Requirement + Test	Result - Remark	Verdict
	<u> </u>	( )	774
	PATIENT support/suspension system set in most unfavourable NORMAL USE position, and a mass of 60 % of part of SAFE WORKING LOAD simulating PATIENT OF OPERATOR, or a min 80 kg, placed on support or suspension system with centre of load 60 mm from outer edge of support or suspension system for at least one minute (Kg)		N/A
	Deflection of support/suspension system resulting in an unacceptable RISK not occur		N/A
9.8.3.3	Dynamic forces that can be exerted on equipment parts supporting or suspending a PATIENT OR OPERATOR IN NORMAL USE did not result in an unacceptable RISK as confirmed by following test:	No patient or operator support systems	N/A
	PATIENT support/suspension system set in most unfavourable NORMAL USE position, and a mass equal to SAFE WORKING LOAD simulating PATIENT Or OPERATOR dropped from 150 mm above seat area on an area of support/suspension a PATIENT Or OPERATOR can sit:		N/A
9.8.4	Systems with MECHANICAL PROTECTIVE DEVICES		N/A
9.8.4.1	a) A MECHANICAL PROTECTIVE DEVICE provided when a support system or its parts impaired by wear have a TENSILE SAFETY FACTOR ≥ to values in Table 21, rows 5 and 6, but less than 3 and 4	No mechanical protective device provided	N/A
	b) MECHANICAL PROTECTIVE complies with the requirements as follows:		N/A
	Designed based on TOTAL LOAD, and includes effects of SAFE WORKING LOAD when applicable		N/A
	- Has TENSILE SAFETY FACTORS for all parts not less than Table 21, row 7		N/A
	- Activated before travel (movement) produced an unacceptable RISK		N/A
	- Takes into account Clauses 9.2.5 and 9.8.4.3		N/A
	Compliance confirmed by examination of ME EQUIPMENT, RISK MANAGEMENT FILE, specifications of materials and their processing		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
9.8.4.2	Activation of MECHANICAL PROTECTIVE DEVICE is made obvious to OPERATOR when ME EQUIPMENT can still be used after failure of suspension or actuation means and activation of a MECHANICAL PROTECTIVE DEVICE (e.g., a secondary cable)	No mechanical protective device provided	N/A
	MECHANICAL PROTECTIVE DEVICE requires use of a TOOL to be reset or replaced		N/A
9.8.4.3	MECHANICAL PROTECTIVE DEVICE intended to funct	ion once	N/A
	- Further use of ME EQUIPMENT not possible until replacement of MECHANICAL PROTECTIVE DEVICE:	No mechanical protective device provided	N/A
	- ACCOMPANYING DOCUMENTS Instruct once MECHANICAL PROTECTIVE DEVICE is activated, SERVICE PERSONNEL Shall be called, and MECHANICAL PROTECTIVE DEVICE must be replaced before ME EQUIPMENT can be used		N/A
	- ME EQUIPMENT permanently marked with safety sign 2 of Table D.2 (i.e., safety sign 7010-W001)		N/A
	- Marking is adjacent to MECHANICAL PROTECTIVE DEVICE or its location relative to MECHANICAL PROTECTIVE DEVICE is obvious to service personnel		N/A
	- Compliance confirmed by examination of ME EQUIPMENT, ACCOMPANYING DOCUMENTS, RISK MANAGEMENT FILE, specifications and processing of materials, and following test:		N/A
	A chain, cable, band, spring, belt, jack screw nut, pneumatic or hydraulic hose, structural part or the like, employed to support a load, defeated by a convenient means causing maximum normal load to fall from most adverse position permitted by construction of ME EQUIPMENT		N/A
	Load included SAFE WORKING LOAD in 9.8.3.1 when system was capable of supporting a PATIENT OF OPERATOR		N/A
	No evidence of damage to MECHANICAL PROTECTIVE DEVICE affecting its ability to perform its intended function		N/A
9.8.5	Systems without MECHANICAL PROTECTIVE DEVICES		Pass
	Support system parts have TENSILE SAFETY FACTORS ≥ to values in Table 21, rows 1 and 2, and are not impaired by wear	See appended RM Results Table 9.8.5	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
	Support system parts impaired by wear, however, they have TENSILE SAFETY FACTORS ≥ to values in Table 21, rows 3 and 4		N/A
	Examination of ME EQUIPMENT and RISK MANAGEMENT FILE confirmed compliance		N/A

10	PROTECTION AGAINST UNWANTED AND EXCESSIVE RADIATION HAZARDS		
10.1	X-Radiation		N/A
10.1.1	X-radiation dose-rate was ≤ 36 pA/kg (5 µSv/h) (0.5 mR/h) 5 cm from surface of ME EQUIPMENT including background radiation for ME EQUIPMENT not producing therapeutic/diagnostic X-radiation but producing ionizing radiation .:	No X-Radiation	N/A
	Amount of radiation measured by means of an ionizing chamber radiation monitor with an effective area of 10 cm <sup>2</sup> or by other instruments producing equal results		N/A
	ME EQUIPMENT operated as in NORMAL USE at most unfavourable RATED MAINS VOLTAGE and controls adjusted to emit maximum radiation		N/A
	Internal pre-set controls not intended for adjustment during EXPECTED SERVICE LIFE of ME EQUIPMENT not taken into consideration		N/A
10.1.2	RISK from unintended X-radiation from ME EQUIPMENT producing X-radiation for diagnostic and therapeutic purposes addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE (see IEC 60601-1-3 & 1.3):		N/A
10.2	RISK associated with alpha, beta, gamma, neutron, and other particle radiation, when applicable, addressed in RISK MANAGEMENT PROCESS as shown in RISK MANAGEMENT FILE:	No alpha, beta, gamma, neutron, and other particle radiation	N/A
10.3	RISK associated with microwave radiation, when applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE	No microwave radiation	N/A





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Clause	Requirement + Test	Result - Remark	Verdict
10.4	Relevant requirements of IEC 60825-1:1993 applied to lasers, light emitting diodes (LEDs), and laser light barriers or similar products	No lasers and laser light barriers or similar products  This product contains only LEDs (Class 1) operating in the range of 400 - 700 nm wavelength. No IEC60825-1 evaluation was deemed necessary. Additional review may be required at the discretion of the accepting NCB.	Pass
10.5	RISK associated with visible electromagnetic radiation other than emitted by lasers and LEDS, when applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE	See appended RM Results Table 10.5	N/A
10.6	RISK associated with infrared radiation other than emitted by lasers and LEDS, as applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE	No such hazard	N/A
10.7	RISK associated with ultraviolet radiation other than emitted by lasers and LEDS, as applicable, addressed in RISK MANAGEMENT PROCESS as indicated in RISK MANAGEMENT FILE	No UV	N/A

11	PROTECTION AGAINST EXCESSIVE TEMPERATHAZARDS	TURES AND OTHER	Pass
11.1	Excessive temperatures in ME EQUIPMENT		Pass
11.1.1	Temperatures on ME EQUIPMENT parts did not exceed values in Tables 22 and 23 operating in worst-case NORMAL USE at maximum rated ambient operating temperature T:	See appended Table 11.1.1 and appended RM Results Table 11.1.1	Pass
	Surfaces of test corner did not exceed 90 °C		Pass
	THERMAL CUT-OUTS did not operate in NORMAL CONDITION	No THERMAL CUT-OUTS	N/A
11.1.2	Temperature of APPLIED PARTS		Pass
11.1.2.1	Temperatures, hot or cold surfaces, and when appropriate, clinical effects of APPLIED PARTS supplying heat to a PATIENT determined and documented in RISK MANAGEMENT FILE and instructions for use	Touch Panel and Plastic enclosure was defined for the product.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
11.1.2.2	APPLIED PARTS not supplying heat to a PATIENT met Table 24 with max surface temperatures > 41 °C disclosed in instructions for use, and clinical effects regarding maturity of PATIENTS, body surface, surface pressure, medications taken, as shown in RISK MANAGEMENT FILE:	See appended RM Results Table 11.1.2.2	Pass
	Surfaces of APPLIED PARTS cooled below ambient temperatures that can also result in HAZARD evaluated as part of RISK MANAGEMENT PROCESS		N/A
11.1.3	Measurements not made when engineering judgment and rationale by MANUFACTURER indicated temperature limits could not exceed, as documented in RISK MANAGEMENT FILE:	See appended RM Results Table 11.1.3	Pass
	Test corner not used where engineering judgment and rationale by MANUFACTURER indicated test corner will not impact measurements, as documented in RISK MANAGEMENT FILE	The test corner is used and its surfaces shall not exceed 90 °C.	N/A
	Probability of occurrence and duration of contact for parts likely to be touched and for APPLIED PARTS documented in RISK MANAGEMENT FILE	Touch Panel and Plastic enclosure or parts likely to be touched	Pass
11.1.4	GUARDS preventing contact with hot or cold accessible surfaces removable only with a TOOL	No such construction	N/A
11.2	Fire prevention		Pass
11.2.1	ENCLOSURE has strength and rigidity necessary to prevent a fire caused by reasonably foreseeable misuse and met mechanical strength tests for ENCLOSURES in 15.3		Pass
11.2.2	Me equipment and me systems used in conjunc ENVIRONMENTS	tion with OXYGEN RICH	N/A
11.2.2.1	RISK of fire in an OXYGEN RICH ENVIRONMENT reduced by means limiting spread of fire under NORMAL or SINGLE FAULT CONDITIONS when source of ignition in contact with ignitable material:	Equipment not suitable for use in the presence of OXYGEN RICH ENVIRONMENT	N/A
	Requirements of 13.1.1 applied to oxygen concentrations up to 25 % at one atmosphere or partial pressures up to 27.5 kPa for higher atmospheric pressures		N/A
	a) No sources of ignition discovered in an OXYGEN RICH ENVIRONMENT IN NORMAL and SINGLE FAULT CONDITIONS under any of the following conditions:		N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
	(17/4	<u>i</u>	1774	
	when temperature of material raised to its ignition temperature		N/A	
	2) when temperatures affected solder or solder joints causing loosening, short circuiting, or other failures causing sparking or increasing material temperature to its ignition temperature		N/A	
	3) when parts affecting safety cracked or changed outer shape exposing temperatures higher than 300°C or sparks due to overheating		N/A	
	4) when temperatures of parts or components exceeded 300°C, atmosphere was 100 % oxygen, contact material solder, and fuel cotton		N/A	
	5) when sparks provided adequate energy for ignition by exceeding limits of Figs 35 to 37 (inclusive), atmosphere was 100 % oxygen, contact material solder, and fuel cotton		N/A	
	Deviations from worst case limits in 4) and 5) above based on lower oxygen concentrations or less flammable fuels justified and documented in RISK MANAGEMENT FILE		N/A	
	Alternative test in this clause did not identify existence of ignition sources at highest voltage or current, respectively		N/A	
	A safe upper limit determined by dividing upper limit of voltage or current, respectively, with safety margin factor of three:		N/A	
	b) RESIDUAL RISK of fire in an OXYGEN RICH ENVIRONMENT as determined by application of RISK MANAGEMENT PROCESS is based on following configurations, or in combination:		N/A	
	1) Electrical components in an OXYGEN RICH ENVIRONMENT provided with power supplies having limited energy levels lower than those considered sufficient for ignition in 11.2.2.1 a) as determined by examination, measurement or calculation of power, energy, and temperatures in NORMAL and SINGLE FAULT CONDITIONS identified in 11.2.3		N/A	
	2) Max oxygen concentration measured until it did not exceed 25 % in ventilated compartments with parts that can be a source of ignition only in SINGLE FAULT CONDITION and can be penetrated by oxygen due to an undetected leak (%)		N/A	







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Clause	Requirement + Test	Result - Remark	Verdict	
	3) A compartment with parts or components that can be a source of ignition only under SINGLE FAULT CONDITION separated from another compartment containing an OXYGEN RICH ENVIRONMENT by sealing all joints and holes for cables, shafts, or other purposes		N/A	
	Effect of possible leaks and failures under SINGLE FAULT CONDITION that could cause ignition evaluated using a RISK ASSESSMENT to determine maintenance intervals by examination of documentation and RISK MANAGEMENT FILE:		N/A	
	4) Fire initiated in ENCLOSURE of electrical components in a compartment with OXYGEN RICH ENVIRONMENT that can become a source of ignition only under SINGLE FAULT CONDITIONS self-extinguished rapidly and no hazardous amount of toxic gases reached PATIENT as determined by analysis of gases:		N/A	
11.2.2.2	RISK of ignition under least favourable conditions did not occur and oxygen concentration did not exceed 25% in immediate surroundings due to location of external exhaust outlets of an OXYGEN RICH ENVIRONMENT when electrical components mounted outside of ME EQUIPMENT or ME SYSTEM		N/A	
11.2.2.3	Electrical connections within a compartment containing an OXYGEN RICH ENVIRONMENT under NORMAL USE did not produce sparks due to loosening or breaking, except when limited in power and energy to values in 11.2.2.1 a) 5)		N/A	
	<ul> <li>Screw-attachments protected against loosening during use by varnishing, use of spring washers, or adequate torques</li> </ul>		N/A	
	Soldered, crimped, and pin-and-socket connections of cables exiting ENCLOSURE include additional mechanical securing means		N/A	
11.2.3	SINGLE FAULT CONDITIONS related to OXYGEN RICH EI ME SYSTEMS considered	NVIRONMENTS ME EQUIPMENT and	N/A	
	- Failure of a ventilation system constructed in accordance with 11.2.2.1 b) 2):	Equipment not suitable for use in the presence of OXYGEN RICH ENVIRONMENT	N/A	
	- Failure of a barrier constructed in accordance with 11.2.2.1 b) 3)		N/A	
-	- Failure of a component creating a source of ignition (as defined in 11.2.2.1 a):		N/A	







	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	- Failure of solid insulation or creepage and clearances providing equivalent of at least one MEANS OF PATIENT PROTECTION but less than two MEANS OF PATIENT PROTECTION that could create a source of ignition defined in 11.2.2.1 a):		N/A
	- Failure of a pneumatic component resulting in leakage of oxygen-enriched gas:		N/A
11.37	Constructional requirements for fire ENCLOSURES	of ME EQUIPMENT	Pass
	ME EQUIPMENT met this clause for alternate means of compliance with selected HAZARDOUS SITUATIONS and fault conditions in 13.1.2:	See appended RM Results Table 11.3	Pass
	Constructional requirements were met, or		Pass
	- constructional requirements specifically analysed in RISK MANAGEMENT FILE:	See appended RM Results Table 11.3	Pass
	Justification, when requirement not met:	The constructional requirements were met	Pass
	a) Flammability classification of insulated wire within fire ENCLOSURE is FV-1, or better, based on IEC 60695 series as determined by examination of data on materials	See appended Table 8.10	Pass
	Flammability classification of connectors, printed circuit boards, and insulating material on which components are mounted is FV-2, or better, based on IEC 60695-11-10 as decided by examination of materials data	See appended Table 8.10	Pass
	If no FV Certification, FV tests based on IEC 60695-11-10 conducted on 3 samples of complete parts (or sections of it), including area with min. thickness, ventilation openings		N/A
	b) Fire ENCLOSURE met following:		Pass
	1) No openings at bottom or, as specified in Fig 39, constructed with baffles as in Fig 38, or made of perforated metal as in Table 25, or a metal screen with a mesh ≤ 2 × 2 mm centre to centre and wire diameter of at least 0.45 mm	Numerous openings provided. No hazardous part within projection area at a 5° angle from edge of the opening.	Pass
	2) No openings on the sides within the area included within the inclined line C in Fig 39	No openings on the sides	N/A





01	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	3) ENCLOSURE, baffles, and flame barriers have adequate rigidity and made of appropriate metal or of non-metallic materials, except constructions based on Table 25 and a mesh; FV-2 or better for TRANSPORTABLE ME EQUIPMENT, FV-1 or better for fixed EQUIPMENT, or STATIONARY EQUIPMENT per IEC 60695-11-10, determined by ENCLOSURE examination or flammability classification based on 11.3a):	See appended Table 8.10	Pass
11.4	ME EQUIPMENT and ME SYSTEMS intended for use w	with flammable anaesthetics	N/A
	ME EQUIPMENT, ME SYSTEMS and parts described in ACCOMPANYING DOCUMENTS for use with flammable anaesthetics (CATEGORY AP) or anaesthetics with oxidants (CATEGORY APG) comply with Annex G	Not suitable to use with AP/APG	N/A
11.5	ME EQUIPMENT and ME SYSTEMS intended for use in agents	n conjunction with flammable	N/A
	MANUFACTURER'S RISK MANAGEMENT PROCESS addresses possibility of fire and associated mitigations as confirmed by examination of RISK MANAGEMENT FILE:	Not intended to use in conjunction with flammable agents	N/A
11.6	Overflow, spillage, leakage, ingress of water or disinfection, sterilization and compatibility with EQUIPMENT		Pass
11.6.1	Sufficient degree of protection provided against overflow, spillage, leakage, ingress of water or particulate matter, cleaning, disinfection and sterilization, and compatibility with substances used with ME EQUIPMENT	See appended Table 11.6.1	Pass
11.6.2	Overflow in ME EQUIPMENT		N/A
	Liquid reservoir liable to overflow in NORMAL USE completely filled and 15 % of its capacity poured in for over 1 min, and except when restricted, TRANSPORTABLE ME EQUIPMENT tilted		N/A
	through an angle of 15° in least favourable direction(s), and when necessary refilled starting from position of NORMAL USE:		<u> </u>
	through an angle of 15° in least favourable direction(s), and when necessary refilled		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	ME EQUIPMENT and ME SYSTEMS handling liquids in NORMAL USE positioned as in 5.4 a) and liquid with composition, volume, duration of spill, point of contact, and test conditions based on RISK MANAGEMENT PROCESS poured steadily on a point on top of ME EQUIPMENT	No liquid handling when Normal use	N/A
	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests and uninsulated electrical parts or electrical insulation of parts that could result in a HAZARDOUS SITUATION were not wet		N/A
11.6.4	Leakage		N/A
11.6.5	Ingress of water or particulate matter into ME EQ	UIPMENT and ME SYSTEMS	N/A
	ME EQUIPMENT with IP Code placed in least favourable position of NORMAL USE and subjected to tests of IEC 60529 (IP Code):	IPX0	N/A
	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests and there were no bridging of insulation or electrical components that could result in a HAZARDOUS SITUATION in NORMAL CONDITION or in a SINGLE FAULT CONDITION		N/A
11.6.6	Cleaning and disinfection of ME EQUIPMENT and M	IE SYSTEMS	Pass
	ME EQUIPMENT/ME SYSTEM and their parts and ACCESSORIES cleaned or disinfected once using methods specified in instructions for use including any cooling or drying period:	See appended Table 11.6.1	Pass
	ME EQUIPMENT met dielectric strength and LEAKAGE CURRENT tests, with no deterioration resulting in an unacceptable RISK present:	See appended RM Results Table 11.6.6. See appended Tables 8.7 and 8.8.3	Pass
	Effects of multiple cleanings/disinfections during EXPECTED SERVICE LIFE OF EQUIPMENT evaluated by MANUFACTURER and assurance that no unacceptable RISK will occur verified by RISK MANAGEMENT FILE review:	Expected service life will not be impacted since cleaning test shows solution will cause no harm / degradation to device insulation	N/A
11.6.7	Sterilization of ME EQUIPMENT and ME SYSTEMS		N/A
	ME EQUIPMENT, ME SYSTEMS and their parts or ACCESSORIES intended to be sterilized assessed and documented according to ISO 11134, ISO 11135, or ISO 11137 as appropriate	Not intended to be sterilized	N/A
	After the test, ME EQUIPMENT complied with the appropriate dielectric strength and LEAKAGE CURRENT tests and there was no deterioration resulting in an unacceptable RISK		N/A







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Clause	Requirement + Test	Result - Remark	Verdict		
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11.6.8	RISKS associated with compatibility of substances used with ME EQUIPMENT addressed in RISK MANAGEMENT PROCESS as confirmed by examination of RISK MANAGEMENT FILE		N/A		
11.7	ME EQUIPMENT, ME SYSTEM, and ACCESSORIES coming into direct or indirect contact with biological tissues, cells, or body fluids assessed and documented per ISO 10993		N/A		
11.8	Interruption and restoration of power supply did not result in a HAZARDOUS SITUATION, except interruption of its intended function		Pass		

12	ACCURACY OF CONTROLS AND INSTRUMENTS AND PROTECTION AGAINST HAZARDOUS OUTPUTS	
12.1	RISKS associated with accuracy of controls and instruments stated in RISK MANAGEMENT PROCESS confirmed by RISK MANAGEMENT FILE review:  No function for accuracy of controls and instrume controls and instrume protection against hazoutputs	ents and
12.2	RISK of poor USABILITY, including identification, marking, and documents addressed in a USABILITY ENGINEERING PROCESS as confirmed by review of provided records:	N/A
12.3	The need for alarm systems as a means of RISK CONTROL and RISKS associated with operation or failure of alarm system addressed in RISK MANAGEMENT PROCESS	N/A
12.4	Protection against hazardous output	N/A
12.4.1	RISKS associated with hazardous output arising from intentional exceeding of safety limits addressed in RISK MANAGEMENT FILE	ents and
12.4.2	When applicable, need for indication of parameters associated with hazardous output addressed in RISK MANAGEMENT PROCESS as confirmed in RISK MANAGEMENT FILE:	N/A
12.4.3	RISKS associated with accidental selection of excessive output values for ME EQUIPMENT with a multi-purpose unit designed to provide low and high-intensity outputs for different treatments addressed in RISK MANAGEMENT PROCESS, confirmed in RISK MANAGEMENT FILE	N/A
12.4.4	When applicable, RISKS associated with incorrect output addressed in RISK MANAGEMENT PROCESS as confirmed by review of RISK MANAGEMENT FILE:	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
12.4.5	Diagnostic or therapeutic radiation		N/A
12.4.5.1	Adequate provisions to protect OPERATORS, PATIENTS, other persons and sensitive devices in vicinity of unwanted or excessive radiation emitted by ME EQUIPMENT designed to produce radiation for diagnostic/therapeutic purposes	No function for accuracy of controls and instruments and protection against hazardous outputs	N/A
	Radiation safety ensured by compliance with requirements of appropriate standards	772	N/A
12.4.5.2	RISKS associated with diagnostic X-rays addressed in RISK MANAGEMENT PROCESS as confirmed in RISK MANAGEMENT FILE:		N/A
12.4.5.3	RISKS associated with radiotherapy addressed in RISK MANAGEMENT PROCESS as confirmed by review of RISK MANAGEMENT FILE		N/A
12.4.5.4	RISKS associated with ME EQUIPMENT producing diagnostic or therapeutic radiation other than diagnostic X-rays and radiotherapy addressed in RISK MANAGEMENT PROCESS as confirmed by examination of RISK MANAGEMENT FILE		N/A
12.4.6	When applicable, RISKS associated with diagnostic or therapeutic acoustic pressure addressed in RISK MANAGEMENT PROCESS as confirmed in RISK MANAGEMENT FILE:	No function for accuracy of controls and instruments and protection against hazardous outputs	N/A

13 7	HAZARDOUS SITUATIONS AND FAULT CONDIT	IONS	Pass
13.1	Specific HAZARDOUS SITUATIONS		Pass
13.1.1	None of HAZARDOUS SITUATIONS in 13.1.2-13.1.4, inclusive, occurred when SINGLE FAULT CONDITIONS applied, one at a time, as in 4.7 and 13.2		Pass
13.1.2	Emissions, deformation of ENCLOSURE or exceed	ling maximum temperature	Pass
	- Emission of flames, molten metal, poisonous or ignitable substance in hazardous quantities did not occur		Pass
	- Deformation of ENCLOSURE impairing compliance with 15.3.1 did not occur		Pass
	- Temperatures of APPLIED PARTS did not exceed allowable values in Table 24 when measured as in 11.1.3		Pass
	- Temperatures of ME EQUIPMENT parts that are not APPLIED PARTS likely to be touched did not exceed values in Table 23 when measured and adjusted as in 11.1.3	See appended table 13.2 for detail	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
	-Allowable values for "other components and materials" in Table 22 times 1.5 minus 12.5 °C were not exceeded		Pass
	Limits for windings in Tables 26, 27, and 31 not exceeded		N/A
	Table 22 not exceeded in all other cases		Pass
	Temperatures measured according to 11.1.3		Pass
	SINGLE FAULT CONDITIONS in 4.7, 8.1 b), 8.7.2, and 13.2.2 relative to emission of flames, molten metal, or ignitable substances, not applied to parts and components where:		Pass
	- Supply circuit was unable to supply 15 W one minute after 15 W drawn from supply circuit, or		N/A
	Parts and components completely contained within a fire ENCLOSURE complying with 11.3 as verified by review of design documentation		Pass
	After tests of this Clause, settings of THERMAL CUT-OUTS and OVER-CURRENT RELEASES did not change sufficiently to affect their safety function	No THERMAL CUT-OUTS and OVER-CURRENT RELEASES	N/A
13.1.3	- limits for LEAKAGE CURRENT in SINGLE FAULT CONDITION based on 8.7.3 did not exceed	See appended Table 8.7.3	Pass
<b>3</b>	- voltage limits for ACCESSIBLE PARTS including APPLIED PARTS in 8.4.2 did not exceed:	See appended Table 8.7.3	Pass
13.1.4	ME EQUIPMENT complied with the requirements of 9.1 to 9.8 for specific MECHANICAL HAZARDS		Pass
13. 2	SINGLE FAULT CONDITIONS		Pass
13.2.1	During application of SINGLE FAULT CONDITIONS in 13.2.2 -13.2.13, inclusive, NORMAL CONDITIONS in 8.1 a) applied in least favourable combination:	See appended Table 13.2	Pass
13.2.2 <b>–</b> 13.2.12	ME EQUIPMENT complied with 13.2.2 -13.2.12:	See appended Table 13.2	Pass
13.2.13	ME EQUIPMENT remained safe after tests of 13.2.13.2 to 13.2.13.4 (inclusive), and cooling down to room temperature		Pass
	ME EQUIPMENT examined for compliance or appropriate tests such as dielectric strength of motor insulation according to 8.8.3 conducted		Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	For insulation of thermoplastic materials relied upon as a MEANS OF PROTECTION (see 8.8), the ball-pressure test specified in 8.8.4.1 a) performed at a temperature 25 °C higher than temperature of insulation measured during tests of 13.2.13.2 to 13.2.13.4 (inclusive).		Pass
13.2.13.2	ME EQUIPMENT with heating elements		N/A
	a 1) thermostatically controlled ME EQUIPMENT with heating elements for building-in, or for unattended operation, or with a capacitor not protected by a fuse connected in parallel with THERMOSTAT contacts met tests of 13.2.13.2 b) & 13.2.13.2 c)	No heating elements	N/A
	a 2) ME EQUIPMENT with heating elements RATED for non-CONTINUOUS OPERATION met tests of 13.2.13.2 b) and 13.2.13.2 c)		N/A
	a 3) other ME EQUIPMENT with heating elements met test of 13.2.13.2 b)		N/A
	When more than one test was applicable to same ME EQUIPMENT, tests performed consecutively		N/A
	Heating period stopped when a heating element or an intentionally weak part of a non-SELF-RESETTING THERMAL CUT-OUT ruptured, or current interrupted before THERMAL STABILITY without possibility of automatic restoration		N/A
	Test repeated on a second sample when interruption was due to rupture of a heating element or an intentionally weak part		N/A
	Both samples met 13.1.2, and open circuiting of a heating element or an intentionally weak part in second sample not considered a failure by itself		N/A
	b) ME EQUIPMENT with heating elements tested per 11.1without adequate heat discharge, and supply voltage set at 90 or 110 % of RATED supply voltage, least favourable of the two (V)		N/A
	Operating period stopped when a non-SELF-RESETTING THERMAL CUT-OUT operated, or current interrupted without possibility of automatic restoration before THERMAL STABILITY		N/A
	ME EQUIPMENT switched off as soon as THERMAL STABILITY established and allowed to cool to room temperature when current not interrupted		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test duration was equal to RATED operating time for non-CONTINUOUS OPERATION		N/A
	c) Heating parts of ME EQUIPMENT tested with ME EQUIPMENT operated in NORMAL CONDITION at 110 % of RATED supply voltage and as in 11.1, and		N/A
	1) Controls limiting temperature in NORMAL CONDITION disabled, except THERMAL CUT-OUTS		N/A
	2) When more than one control provided, they were disabled in turn		N/A
	3) ME EQUIPMENT operated at RATED DUTY CYCLE until THERMAL STABILITY achieved, regardless of RATED operating time		N/A
13.2.13.3	ME EQUIPMENT with motors		N/A
	a 1) For the motor part of the ME EQUIPMENT, compliance checked by tests of 13.2.8- 13.2.10, 13.2.13.3 b), 13.2.13.3 c), and 13.2.13.4, as applicable	No motor	N/A
	To determine compliance with 13.2.9 and 13.2.10 motors in circuits running at 42.4 V peak a.c./ 60 V d.c. or less are covered with a single layer of cheesecloth which did not ignite during the test		N/A
	a 2) Tests on ME EQUIPMENT containing heating parts conducted at prescribed voltage with motor & heating parts operated simultaneously to produce the least favourable condition		N/A
	a 3) Tests performed consecutively when more tests were applicable to the same ME EQUIPMENT		N/A
	b) Motor met running overload protection test of this clause when:		N/A
	1) it is intended to be remotely or automatically controlled by a single control device with no redundant protection, or		N/A
	2) it is likely to be subjected to CONTINUOUS OPERATION while unattended		N/A
	Motor winding temperature determined during each steady period and maximum value did not exceed Table 27 (Insulation Class, Maximum temperature measured °C)		N/A
M	Motor removed from ME EQUIPMENT and tested separately when load could not be changed in appropriate steps		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Running overload test for motors operating at 42.4 V peak a.c./60 V d.c. or less performed only when examination and review of design indicated possibility of an overload		N/A
	Test not conducted where electronic drive circuits maintained a substantially constant drive current		N/A
	Test not conducted based on other justifications (justification)		N/A
	c) ME EQUIPMENT with 3-phase motors operated with normal load, connected to a 3-phase SUPPLY MAINS with one phase disconnected, and periods of operation per 13.2.10		N/A
13.2.13.4	ME EQUIPMENT RATED for NON-CONTINUOUS OPERATION	ON	N/A
	ME EQUIPMENT (other than HAND-HELD) operated under normal load and at RATED voltage or at upper limit of RATED voltage range until increase in temperature was ≤ 5 °C in one hour, or a protective device operated	CONTINUOUS OPERATION	N/A
	When a load-reducing device operated in NORMAL USE, test continued with ME EQUIPMENT running idle		N/A
	Motor winding temperatures did not exceed values in 13.2.10		N/A
20	Insulation Class		_
	Maximum temperature measured (°C):		_

14	PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS)		N/A
14.1	Requirements of this clause not applied to PESS when it provided no BASIC SAFETY or ESSENTIAL PERFORMANCE, or	Since failure of PESS does not lead to unacceptable risk for this device, requirement of this clause will not be applied.	N/A
	- when application of ISO 14971 showed that failure of PESS does not lead to unacceptable RISK:		N/A
	Every PROCESS has been followed throughout the PEMS DEVELOPMENT LIFE-CYCLE and a RECORD of PROCESS has been made available as confirmed by RISK MANAGEMENT FILE REVIEW and assessment of PROCESSES cited in this Clause		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	MANUFACTURER considered the need for additional RISK CONTROL measures when unable to follow all PROCESSES identified in Clause 14 for each constituent component of PEMS as confirmed by RISK MANAGEMENT FILE review and assessment of PROCESSES cited in this Clause		N/A
	Assessment of PROCESSES cited in this Clause made by internal audits		N/A
14.2	Documents produced from application of Clause 14 are maintained and form a part of RISK MANAGEMENT FILE in addition to RECORDS and documents required by ISO 14971:		N/A
14.3	RISK MANAGEMENT plan required by 3.5 of ISO 14971 includes reference to PEMS VALIDATION plan		N/A
14.4	A PEMS DEVELOPMENT LIFE-CYCLE including a set of defined milestones has been documented		N/A
	At each milestone, activities to be completed, and VERIFICATION methods to be applied to activities have been defined		N/A
	Each activity including its inputs and outputs defined, and each milestone identifies RISK MANAGEMENT activities that must be completed before that milestone		N/A
	PEMS DEVELOPMENT LIFE-CYCLE tailored for a specific development by making plans detailing activities, milestones, and schedules		N/A
	PEMS DEVELOPMENT LIFE-CYCLE includes documentation requirements		N/A
14.5	A documented system for problem resolution within and between all phases and activities of PEMS DEVELOPMENT LIFE-CYCLE has been developed and maintained where appropriate		N/A
	Problem resolution system meets the prescribed criteria depending on type of product:		N/A
	- it is documented as a part of PEMS DEVELOPMENT LIFE-CYCLE		N/A
	it allows reporting of potential or existing problems affecting BASIC SAFETY or ESSENTIAL PERFORMANCE		N/A
	it includes an assessment of each problem for associated RISKS		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	(17/4		$A \nabla A$
	- it identifies criteria that must be met for the issue to be closed		N/A
	<ul> <li>it identifies the action to be taken to resolve each problem</li> </ul>		N/A
14.6	RISK MANAGEMENT PROCESS		N/A
14.6.1	MANUFACTURER considered HAZARDS associated with software and hardware aspects of PEMS including NETWORK/DATA COUPLING, components of third-party origin, legacy subsystems when compiling list of known or foreseeable HAZARDS		N/A
	In addition to the material in ISO 14971, Annex D, list of possible sources for HAZARDS associated with PEMS includes specified causes		N/A
	failure of NETWORK/DATA COUPLING to provide characteristics necessary for PEMS to achieve its BASIC SAFETY OF ESSENTIAL PERFORMANCE		N/A
	<ul> <li>undesired feedback [physical and data] (such as unsolicited/ out of range/ inconsistent input or input from electromagnetic interference)</li> </ul>		N/A
	– unavailable data		N/A
	- lack of integrity of data		N/A
	- incorrect data		N/A
W//	- incorrect timing of data		N/A
7/	- unintended interactions within & among PESS		N/A
	<ul> <li>unknown aspects or quality of third-party software</li> </ul>		N/A
	- unknown aspects or quality of third-party PESS		N/A
	<ul> <li>lack of data security, particularly vulnerability to tampering, unintended interaction with other programs and viruses</li> </ul>		N/A
14.6.2	Suitably validated tools and PROCEDURES assuring each RISK CONTROL measure reduces identified RISK(S) satisfactorily provided in addition to PEMS requirements in Clause 6.1 of ISO 14971:		N/A
14.7	A documented requirement specification for PEMS and each of its subsystems (e.g. for a PESS) which includes ESSENTIAL PERFORMANCE and RISK CONTROL measures implemented by that system or subsystem		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
14.8	An architecture satisfying the requirement is specified for PEMS and each of subsystems:		N/A
	The architecture specification makes use of considers the specified items to reduce RISK to an acceptable level, where appropriate:		N/A
	a) COMPONENTS WITH HIGH-INTEGRITY CHARACTERISTICS		N/A
NVA	b) fail-safe functions	NVA	N/A
7//	c) redundancy		N/A
	d) diversity;		N/A
	e) partitioning of functionality		N/A
	f) defensive design potentially limiting hazardous effects by restricting available output power or by introducing means to limit travel of actuators		N/A
	g) allocation of RISK CONTROL measures to subsystems and components of PEMS		N/A
	h) failure modes of components and their effects;		N/A
	i) common cause failures		N/A
	j) systematic failures		N/A
	k) test interval duration and diagnostic coverage	\$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	N/A
	I) maintainability		N/A
	m) protection from reasonably foreseeable misuse		N/A
	n) NETWORK/DATA COUPLING specification, when applicable		N/A
14.9	Design is broken up into subsystems, each with a design and test specification where appropriate, and descriptive data on design environment included in RISK MANAGEMENT FILE:		N/A
14.10	A VERIFICATION plan containing the specified information used to verify and document functions implementing BASIC SAFETY, ESSENTIAL PERFORMANCE, or RISK CONTROL measures		N/A
N	- milestone(s) when VERIFICATION is to be performed for each function		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	selection and documentation of VERIFICATION strategies, activities, techniques, and appropriate level of independence of the personnel performing the VERIFICATION		N/A
	- selection and utilization of VERIFICATION tools		N/A
	- coverage criteria for VERIFICATION		N/A
14.11	A PEMS VALIDATION plan containing validation of BASIC SAFETY & ESSENTIAL PERFORMANCE and requiring checks for unintended functioning of PEMS to perform and document PEMS VALIDATION		N/A
	The person with overall responsibility for PEMS VALIDATION is independent of design team, and no member of a design team is responsible for PEMS VALIDATION of their own design		N/A
	All professional relationships of members of PEMS VALIDATION team with members of design team documented in RISK MANAGEMENT FILE providing methods & results of PEMS VALIDATION		N/A
14.12	Continued validity of previous design documentation assessed under a documented modification/change PROCEDURE		N/A
14.13	Technical description includes the following information when PEMS is to be connected to other equipment outside control of PEMS MANUFACTURER by NETWORK/DATA COUPLING:		N/A
	a) characteristics of NETWORK/DATA COUPLING necessary for PEMS to achieve its INTENDED USE		N/A
	b) list of HAZARDOUS SITUATIONS resulting from a failure of NETWORK/DATA COUPLING to provide the specified characteristics		N/A
	c) instructions to RESPONSIBLE ORGANIZATION containing required information and warnings		N/A
	- connection of PEMS to a NETWORK/DATA COUPLING that includes other equipment could result in previously unidentified RISKS and RESPONSIBLE ORGANIZATION shall identify, analyze, and control such RISKS		N/A
	- subsequent changes to NETWORK/DATA COUPLING introducing new RISKS and requiring new analysis; and changes to NETWORK/DATA COUPLING include:		N/A
	- NETWORK/DATA COUPLING configuration change		N/A
	- connection of additional items to		N/A

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	IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	ΛηγΔ		ΛηΓΔ	
	- disconnecting items from NETWORK/DATA COUPLING		N/A	
	- update of equipment connected to NETWORK/DATA COUPLING		N/A	
	- upgrade of equipment connected to NETWORK/DATA COUPLING		N/A	

	( )		
15	CONSTRUCTION OF ME EQUIPMENT		Pass
15.1	RISKS associated with arrangement of controls and indicators of ME EQUIPMENT addressed in RISK MANAGEMENT PROCESS, as confirmed by examination of RISK MANAGEMENT FILE:	Arrangement of controls and indicators of this device only display the status of device and will not impact the basic safety	N/A
15.2	Parts of ME EQUIPMENT subject to mechanical wear, electrical, environmental degradation or ageing resulting in unacceptable RISK when unchecked for a long period, are accessible for inspection, replacement, and maintenance	No unacceptable risk after examining; See appended Table 15.3 for related test results.	Pass
	Inspection, servicing, replacement, and adjustment of parts of ME EQUIPMENT can easily be done without damage to or interference with adjacent parts or wiring		N/A
15.3	Mechanical strength		Pass
15.3.1	Mold stress relief, push, impact, drop, and rough handling tests did not result in unacceptable RISK and ME EQUIPMENT displayed adequate mechanical strength	See below	Pass
15.3.2	Push test conducted by subjecting external parts of ENCLOSURE to a steady force of 250 N ± 10 N for 5 s applied to a circular (30mm) plane surface, except bottom of ENCLOSURE of an ME EQUIPMENT >18 kg, using a suitable test tool:	See appended Table 15.3 and RM Results Table 15.3.2	Pass
	No damage resulting in an unacceptable RISK sustained as determined by examination of RISK MANAGEMENT FILE	The test for enclosure material was conducted in this report and complied with standard	Pass
15.3.3	Impact test conducted by subjecting a complete ENCLOSURE or its largest non-reinforced area, except for HAND-HELD ME EQUIPMENT and parts, to a free falling 500 g ± 25 g solid smooth steel ball, approx. 50 mm in diameter from a height of 1.3 m:	See appended Table 15.3 and RM Results Table 15.3.3	Pass
	Test not applied to flat panel displays, platen glass of ME EQUIPMENT, or cathode ray tubes	See appended RM Results Table 15.3.3	Pass

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	ATTA		17/4
	No damage resulting in an unacceptable RISK sustained as shown in RISK MANAGEMENT FILE	See appended RM Results Table 15.3.3	Pass
15.3.4	Drop test		Pass
15.3.4.1	Sample of HAND-HELD ME EQUIPMENT and HAND-HELD part with SAFE WORKING LOAD allowed to fall freely once from each of 3 different positions as in NORMAL USE from height specified in ACCOMPANYING DOCUMENTS, or from 1 m onto a 50 mm ± 5 mm thick hardwood board lying flat on a concrete or rigid base	See appended Table 15.3	N/A
	No unacceptable RISK resulted		N/A
15.3.4.2	Sample of PORTABLE ME EQUIPMENT and PORTABLE part with SAFE WORKING LOAD lifted to a height as in Table 29 above a 50 ± 5 mm thick hardwood board lying flat on a concrete floor or rigid base, dropped 3 times from each orientation in NORMAL USE (cm)	Test conducted with 5cm. See appended Table 15.3 and RM Results Table 15.3.4.2	Pass
	No damage resulting in an unacceptable RISK sustained as determined by examination of sample and RISK MANAGEMENT FILE	See appended RM Results Table 15.3.4.2	Pass
15.3.5	Each sample of MOBILE ME EQUIPMENT and MOBILE part with SAFE WORKING LOAD and in most adverse condition in NORMAL USE passed Rough Handling tests	No mobile part.	N/A
	a) Ascending step shock test conducted on the sample by pushing it 3 times in its normal direction of travel at 0.4 m/s ± 0.1 m/s against an ascending hardwood step obstruction without the sample going over the obstruction		N/A
	b) Descending step shock test conducted on the sample by pushing it 3 times in its normal direction of travel at 0.4 m/s ± 0.1 m/s in order to fall over a vertical step affixed flat on a rigid base with direction of movement perpendicular to face of the step until full descent achieved		N/A
	c) Door frame shock test conducted on the sample by moving it 3 times in its normal direction of travel at 0.4 m/s ± 0.1 m/s, or for motor driven EQUIPMENT, at maximum possible speed against a hardwood vertical obstacle higher than EQUIPMENT contact point(s)		N/A
	No damage resulting in an unacceptable RISK sustained as determined by examination of sample and RISK MANAGEMENT FILE		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
15.3.6	Examination of ENCLOSURE made from molded or formed thermoplastic material indicated that material distortion due to release of internal stresses by molding or forming operations will not result in an unacceptable RISK		Pass
	Mold-stress relief test conducted by placing one sample of complete ME EQUIPMENT, ENCLOSURE or a portion of larger ENCLOSURE, for 7 hours in a circulating air oven at 10°C over the max temperature measured on ENCLOSURE in 11.1.3, but no less than 70 °C	See appended Table 15.3 for detail	Pass
	No damage resulting in an unacceptable RISK		Pass
15.3.7	INTENDED USE, EXPECTED SERVICE LIFE, and conditions for transport and storage were taken into consideration for selection and treatment of materials used in construction of ME EQUIPMENT	See RMF ONYX- BE381DT_RMF_ Version: 1.00, Section - Version data	Pass
	Based on review of EQUIPMENT, ACCOMPANYING DOCUMENTS, specifications and processing of materials, and MANUFACTURER'S relevant tests or calculations, corrosion, ageing, mechanical wear, degradation of biological materials due to bacteria, plants, animals and the like, will not result in an unacceptable RISK		Pass
15.47	ME EQUIPMENT components and general assemble	<b>y</b> 17\alpha	N/A
15.4.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where an unacceptable RISK exists, in particular:	No any outlet is provided on the power adapter except for dc output connector itself.	N/A
	a) Plugs for connection of PATIENT leads cannot be connected to other outlets on same ME EQUIPMENT intended for other functions, except when RISK MANAGEMENT FILE provides proof that no unacceptable RISK could result:		N/A
	b) Medical gas connections on ME EQUIPMENT for different gases to be operated in NORMAL USE are not interchangeable as verified by review of RISK MANAGEMENT FILE	No Medical gas connections	N/A
15.4.2	Temperature and overload control devices		N/A
15.4.2.1	a) THERMAL CUT-OUTS and OVER-CURRENT RELEASES with automatic resetting not used in ME EQUIPMENT when their use could result in a HAZARDOUS SITUATION by resetting action as Verified by review of RISK MANAGEMENT FILE:	No such component is incorporated.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
	b) THERMAL CUT-OUTS with a safety function to be reset by a soldering operation affecting operating value not fitted in ME EQUIPMENT as verified by examination of design and RISK MANAGEMENT FILE:		N/A	
	c) An independent non-SELF-RESETTING THERMAL CUT-OUT is, additionally, provided where a failure of a THERMOSTAT could constitute a HAZARD as verified by examination of design and RISK MANAGEMENT FILE		N/A	
	d) Based on design and RISK MANAGEMENT FILE review, loss of function of ME EQUIPMENT due to operation of THERMAL CUT-OUT OR OVER CURRENT RELEASE doesn't result in a HAZARDOUS SITUATION		N/A	
	e) Capacitors or other spark-suppression devices not connected between contacts of THERMAL CUT-OUTS		N/A	
	f) Use of THERMAL CUT-OUTS OF OVER-CURRENT RELEASES do not affect safety of ME EQUIPMENT as verified by following tests:		N/A	
	Positive temperature coefficient devices (PTC's) complied with IEC 60730-1: 1999, clauses 15, 17, J.15, and J.17 as applicable		N/A	
	ME EQUIPMENT containing THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated under the conditions of Clause 13		N/A	
	Self-resetting thermal cut-outs and over- current releases including circuits performing equivalent functions (other than PTC's) Certified according to appropriate standards		N/A	
	In the absence of Certification in accordance with IEC standards, SELF-RESETTING THERMAL CUT-OUTS and OVER-CURRENT RELEASES including circuits performing equivalent functions (other than PTC's) operated 200 times		N/A	
	Manual reset THERMAL CUT-OUTS and OVER-CURRENT RELEASES Certified in accordance with appropriate IEC standards		N/A	
	When certification based on IEC standards, or data from MANUFACTURER demonstrating reliability of component to perform its safety-related function is not available, manual reset THERMAL CUT-OUTS and OVER-CURRENT RELEASES operated 10 times		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
	Thermal protective devices tested separately from ME EQUIPMENT when engineering judgment indicated test results would not be impacted		N/A
	g) Protective device, provided on ME EQUIPMENT incorporating a fluid filled container with heating means, operated when heater switched on with container empty and prevented an unacceptable RISK due to overheating		N/A
	h) ME EQUIPMENT with tubular heating elements provided with protection against overheating in both leads where a conductive connection to earth could result in overheating as verified by review of design and RISK MANAGEMENT FILE:		N/A
15.4.2.2	Temperature settings clearly indicated when means provided to vary setting of THERMOSTATS		N/A
15.4.3	Batteries	A T	N/A
15.4.3.1	Battery housings from which gases can escape during charging or discharging likely to result in a HAZARD ventilated to minimize RISK of accumulation and ignition as verified by review of design and RISK MANAGEMENT FILE		N/A
	Battery compartments prevent accidental short circuiting of battery when this could result in a HAZARDOUS SITUATION as verified by examination of design and RISK MANAGEMENT FILE		N/A
15.4.3.2	Means provided to prevent incorrect connection of polarity when a HAZARDOUS SITUATION may develop by incorrect connection or replacement of a battery:	See appended RM Results Table 15.4.3.2	N/A
15.4.3.3	Overcharging of battery prevented by virtue of design when it could result in an unacceptable RISK as verified by review of design:	See appended RM Results Table 15.4.3.3	N/A
15.4.3.4	Lithium batteries that could become a HAZARD complied with appropriate tests of IEC 60086-4	See appended RM Results Table 15.4.3.4	N/A
	Tests of IEC 60086-4 waived on the lithium battery based on examination of design		N/A
15.4.3.5	A properly RATED protective device provided within INTERNAL ELECTRICAL POWER SOURCE to protect against fire caused by excessive currents when (in case of a short circuit) layout of internal wiring, cross-sectional area, rating of connected components can result in a fire:		N/A
	Protective device has adequate breaking capacity to interrupt the maximum fault current		N/A





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Clause	Requirement + Test	Result - Remark	Verdict
	Justification for OVER-CURRENT RELEASES OF FUSE exclusion is included in RISK MANAGEMENT FILE		N/A
15.4.4	Indicator lights provided to indicate ME EQUIPMENT is ready for NORMAL USE, except when apparent to OPERATOR from normal operating position, and marking of 7.4.1 are insufficient for this purpose:		N/A
	An additional indicator light provided on ME EQUIPMENT with a stand-by state or a warm-up state exceeding 15 s, except when apparent to OPERATOR from normal operating position	No stand-by or warm-up state	N/A
	Indicator lights provided on ME EQUIPMENT incorporating non-luminous heaters to indicate heaters are operational when a HAZARDOUS SITUATION could exist, except when apparent to OPERATOR from normal operating position		N/A
	Requirement not applied to heated stylus-pens for recording purposes		N/A
	Indicator lights provided on ME EQUIPMENT to indicate an output exists where an accidental or prolonged operation of output circuit could constitute a HAZARDOUS SITUATION		N/A
	Colours of indicator lights complied with 7.8.1		N/A
	Charging mode visibly indicated in ME EQUIPMENT incorporating a means for charging an INTERNAL ELECTRICAL POWER SOURCE		N/A
15.4.5	RISKS associated with pre-set controls addressed in RISK MANAGEMENT PROCESS when applicable as verified by review of RISK MANAGEMENT FILE	No pre-set controls function	N/A
15.4.6	Actuating parts of controls of ME EQUIPMENT		N/A
15.4.6.1	a) Actuating parts cannot be pulled off or loosened up during NORMAL USE	No Actuating parts	N/A
	b) Indication of scales (e.g., "on" "off" positions, etc.) always corresponds to position of controls with adjustment that can result in a HAZARDOUS SITUATION for PATIENT OF OPERATOR while ME EQUIPMENT is in use		N/A
	c) Incorrect connection of indicating device to relevant component prevented by adequate construction when it could be separated without use of a TOOL		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	When torque values per Table 30 applied between control knob and shaft of rotating controls for not less than 2 s, 10 times in each direction, knobs did not rotate:		N/A
	Tests conducted by applying an axial force of 60 N for electrical components and 100 N for other components for 1 min when an axial pull was required in NORMAL USE with no unacceptable RISK		N/A
15.4.6.2	Stops of adequate mechanical strength provided on rotating/ movable parts of controls of ME EQUIPMENT where necessary to prevent an unexpected change from max to min, or viceversa, of the controlled parameter when this could cause a HAZARDOUS SITUATION:		N/A
	Torque values in Table 30 applied 10 times in each direction to rotating controls for 2 sec:	7	N/A
	Application of an axial force of 60 N for electrical components and 100 N for other components to rotating or movable parts of controls for 1 min when an axial pull was required in NORMAL USE		N/A
15.4.7	Cord-connected HAND-HELD and foot-operated co	ontrol devices	N/A
15.4.7.1	a) HAND-HELD control devices of ME EQUIPMENT complied with 15.3.4.1	Not Cord-connected hand- held and foot-operated control devices	N/A
	b) Foot-operated control device supported an actuating force of 1350 N for 1 min applied over an area of 30 mm diameter in its position of NORMAL USE with no damage to device causing an unacceptable RISK:		N/A
15.4.7.2	Control device of HAND-HELD and foot-operated control devices turned in all possible abnormal positions and placed on a flat surface:		N/A
	No unacceptable RISK caused by changing control setting when accidentally placed in an abnormal position		N/A
15.4.7.3	a) Foot-operated control device is at least IPX1 & complies with tests of IEC 60529 (IP Code):		N/A
	b) ENCLOSURE of foot operated control devices containing electrical circuits is at least IPX6 and complies with IEC 60529 if in NORMAL USE liquids are likely to be found (IP Code)		N/A
	Probability of occurrence estimated as part of		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
15.4.8	Aluminum wires less than 16 mm <sup>2</sup> in cross- sectional area are not used	No aluminum wires	N/A
15.4.9	a) Oil container in PORTABLE ME EQUIPMENT allows for expansion of oil and is adequately sealed to prevent loss of oil in any position	No oil container	N/A
	b) Oil containers in MOBILE ME EQUIPMENT sealed to prevent loss of oil during transport		N/A
	A pressure-release device operating during NORMAL USE is, optionally, provided		N/A
,	c) Partially sealed oil-filled ME EQUIPMENT and its parts provided with means for checking the oil level to detect leakage		N/A
	ME EQUIPMENT and technical description examined, and manual tests conducted to confirm compliance with above requirements	\(\frac{1}{2}\)	N/A
15.5	MAINS SUPPLY TRANSFORMERS OF ME EQUIPMENT and separation in accordance with 8.5	I transformers providing	N/A
15.5.1	Overheating		N/A
15.5.1.1	Transformers of ME EQUIPMENT are protected against overheating in the event of short circuit or overload of output windings and comply with this Clause and tests of 15.5.1.2 – 3	Evaluated in part of power supply	N/A
	During tests, windings did not open, no HAZARDOUS SITUATION occurred, and maximum temperatures of windings did not exceed values in Table 31		N/A
	Dielectric strength test of 8.8.3 conducted on transformer after short circuit and overload tests:		N/A
15.5.1.2	Transformer output winding short circuited, and test continued until protective device operated or THERMAL STABILITY achieved:	Evaluated in part of power supply	N/A
	Short circuit applied directly across output windings for transformers not tested according to 5X frequency and 5X voltage test of 15.5.2		N/A
15.5.1.3	Multiple overload tests conducted on windings with more than one protective device to evaluate worst-case NORMAL USE loading and protection	Evaluated in part of power supply	N/A
15.5.2	Transformer windings provided with adequate insulation to prevent internal short-circuits that could cause overheating which could result in a HAZARDOUS SITUATION	Evaluated in part of power supply	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	ΛηΓΔ	<u> </u>	17.4
	Dielectric strength tests were conducted in accordance with requirements of this clause with no breakdown of insulation system and no detectable deterioration of transformer:		N/A
5.5.3	Transformers forming MEANS OF PROTECTION as required by 8.5 comply with IEC 61558-1:1997, Clause 5.12:		N/A
		TITA	
6	ME SYSTEMS		N/A
16.1	After installation or subsequent modification, ME SYSTEM didn't result in an unacceptable RISK	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A
	Only HAZARDS arising from combining various equipment to form a ME SYSTEM considered		N/A
	- ME SYSTEM provides the level of safety within the PATIENT ENVIRONMENT equivalent to ME EQUIPMENT complying with this standard		N/A
	- ME SYSTEM provides the level of safety outside PATIENT ENVIRONMENT equivalent to equipment complying with their respective IEC or ISO safety standards		N/A
	- tests performed in NORMAL CONDITION, except as specified	N/A	N/A
	- tests performed under operating conditions specified by MANUFACTURER of ME SYSTEM		N/A
	Safety tests previously conducted on individual equipment of ME SYSTEM according to relevant standards not repeated		N/A
	RISK MANAGEMENT methods, optionally, used by MANUFACTURER of an ME SYSTEM reconfigurable by RESPONSIBLE ORGANIZATION OF OPERATOR to determine configurations with highest RISKS and measures to ensure any configuration of ME SYSTEM will not present unacceptable RISKS		N/A
	Non-ME EQUIPMENT used in ME SYSTEM complied with applicable IEC or ISO safety standards		N/A
	Equipment relying only on BASIC INSULATION for protection against electric shock not used in ME SYSTEM		N/A
6.2	ACCOMPANYING DOCUMENTS of an ME SYSTEM		N/A

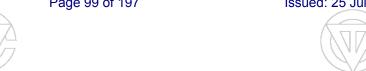
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Clause	Requirement + Test	Result - Remark	Verdict
	Documents containing all data necessary for ME SYSTEM to be used as intended by MANUFACTURER including a contact address accompany ME SYSTEM or modified ME SYSTEM	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A
	ACCOMPANYING DOCUMENTS regarded as a part of ME SYSTEM		N/A
	ACCOMPANYING DOCUMENTS are, optionally, provided in electronic format (e.g. electronic file format or CD ROM) and ME SYSTEM is capable of displaying or printing these documents		N/A
	a) ACCOMPANYING DOCUMENTS provided for each item of ME EQUIPMENT supplied by MANUFACTURER		N/A
	b) ACCOMPANYING DOCUMENTS provided for each item of non-ME EQUIPMENT supplied by MANUFACTURER		N/A
	c) the required information is provided:		N/A
	- specifications, instructions for use as intended by MANUFACTURER, and a list of all items forming the ME SYSTEM		N/A
	- instructions for installation, assembly, and modification of ME SYSTEM to ensure continued compliance with this standard		N/A
	- instructions for cleaning and, when applicable, disinfecting and sterilizing each item of equipment or equipment part forming part of the ME SYSTEM		N/A
	- additional safety measures to be applied during installation of ME SYSTEM		N/A
	- identification of parts of ME SYSTEM suitable for use within the PATIENT ENVIRONMENT		N/A
	additional measures to be applied during preventive maintenance		N/A
	- a warning forbidding placement of MULTIPLE SOCKET-OUTLET, when provided and it is a separate item, on the floor		N/A
	- a warning indicating an additional MULTIPLE SOCKET-OUTLET or extension cord not to be connected to ME SYSTEM		N/A
	a warning to connect only items that have been specified as part of ME SYSTEM or specified as being compatible with ME SYSTEM		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- maximum permissible load for any MULTIPLE SOCKET-OUTLET(S) used with ME SYSTEM		N/A
	- instructions indicating MULTIPLE SOCKET- OUTLETS provided with the ME SYSTEM to be used only for supplying power to equipment intended to form part of ME SYSTEM		N/A
	- an explanation indicating RISKS of connecting non-ME EQUIPMENT supplied as a part of ME SYSTEM directly to wall outlet when non-ME EQUIPMENT is intended to be supplied via a MULTIPLE SOCKET-OUTLET with a separating transformer		N/A
	- an explanation indicating RISKS of connecting any equipment supplied as a part of ME SYSTEM to MULTIPLE SOCKET-OUTLET		N/A
	- permissible environmental conditions of use for ME SYSTEM including conditions for transport and storage		N/A
	- instructions to OPERATOR not to, simultaneously, touch parts referred to in 16.4 and PATIENT		N/A
	d) the following instructions provided for use by RESPONSIBLE ORGANIZATION:		N/A
	- adjustment, cleaning, sterilization, and disinfection PROCEDURES		N/A
	- assembly of ME SYSTEMS and modifications during actual service life shall be evaluated based on the requirements of this standard		N/A
16.3	Instructions for use of ME EQUIPMENT intended to receive its power from other equipment in an ME SYSTEM, describe the other equipment to ensure compliance with these requirements	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A
16.4	Parts of non-ME EQUIPMENT in PATIENT ENVIRONMENT subject to contact by OPERATOR during maintenance, calibration, after removal of covers, connectors, etc., without use of a TOOL operated at a voltage ≤ voltage in 8.4.2 c) supplied from a source separated from SUPPLY MAINS by two MEANS OF OPERATOR PROTECTION	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A
16.5	Safety measures incorporating a SEPARATION DEVICE applied when FUNCTIONAL CONNECTION between ME EQUIPMENT and other items of an ME SYSTEM or other systems can cause allowable values of LEAKAGE CURRENT to exceed	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	SEPARATION DEVICE has dielectric strength, CREEPAGE and CLEARANCES required for one MEANS OF OPERATOR PROTECTION appropriate for highest voltage occurring across SEPARATION DEVICE during a fault condition		N/A
	WORKING VOLTAGE was highest voltage across SEPARATION DEVICE during a fault condition, but not less than MAXIMUM MAINS VOLTAGE (V):		N/A
16.6	LEAKAGE CURRENTS		N/A
16.6.1	TOUCH CURRENT IN NORMAL CONDITION, from or between parts of ME SYSTEM within the PATIENT ENVIRONMENT, did not exceed 100 µA:	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A
	TOUCH CURRENT did not exceed 500 µA in event of interruption of any non-permanently installed protective Earth conductor, from or between parts of ME SYSTEM within PATIENT ENVIRONMENT		N/A
16.6.2	Current in PROTECTIVE EARTH CONDUCTOR of MULTIPLE SOCKET-OUTLET did not exceed 5 mA:		N/A
16.6.3	PATIENT LEAKAGE CURRENT and total PATIENT LEAKAGE CURRENT of ME SYSTEM in NORMAL CONDITION did not exceed values specified for ME EQUIPMENT in Tables 3 and 4		N/A
	Measurements made using a device as in clause 8.7.4.4		N/A
16.7	ME SYSTEM complied with applicable requirements of Clause 9 when a MECHANICAL HAZARD existed:	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A
16.8	Interruption and restoration of relevant power connections of ME SYSTEM one at a time and all connections simultaneously did not result in a HAZARDOUS SITUATION other than interruption of its intended function	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A
16.9	ME SYSTEM connections and wiring		N/A
16.9.1	Incorrect connection of accessible connectors, removable without a TOOL, prevented where a HAZARDOUS SITUATION could otherwise exist:	Product is a Monitor, application and assessment for ME system is not considered in current status.	N/A
	- Connectors complied with Clause 15.4.1		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- Plugs for connection of PATIENT leads could not be connected to other outlets of the same ME SYSTEM likely to be located in PATIENT ENVIRONMENT, except when examination of connectors and interchanging them proved no HAZARDOUS SITUATION could result		N/A
16.9.2	Mains parts, components and layout		N/A
16.9.2.1	a) – MULTIPLE SOCKET-OUTLET only allows connection using a TOOL, or		N/A
	- MULTIPLE SOCKET-OUTLET is of a type that cannot accept MAINS PLUGS of any of the kinds specified in IEC/TR 60083, or		N/A
	- MULTIPLE SOCKET-OUTLET is supplied via a separating transformer		N/A
	b) – MULTIPLE SOCKET-OUTLET marked with safety sign 2 of Table D.2 (i.e., safety sign ISO 7010-W001) visible in NORMAL USE, and		N/A
	<ul> <li>marked either individually or in combinations, with the maximum allowed continuous output in amperes or volt-amperes, or</li> </ul>		N/A
	marked to indicate the equipment or equipment parts it may safely be attached to		N/A
	MULTIPLE SOCKET-OUTLET is a separate item or an integral part of ME EQUIPMENT or non-ME EQUIPMENT		N/A
	c) MULTIPLE SOCKET-OUTLET complied with IEC 60884-1 and the following requirements:		N/A
	- CREEPAGE and CLEARANCES complied with 8.9		N/A
	- It is CLASS I, and PROTECTIVE EARTH CONDUCTOR is connected to earthing contacts in socket-outlets		N/A
	– PROTECTIVE EARTH TERMINALS and PROTECTIVE EARTH CONNECTIONS comply with 8.6, except total impedance for ME SYSTEM was up to 400 m $\Omega$ , or higher when conditions of 8.6.4 b) met (m $\Omega$ ):		N/A
	- ENCLOSURE complied with 8.4.2 d)		N/A
	- MAINS TERMINAL DEVICES and wiring complied with 8.11.4, when applicable		N/A
YV/	- RATINGS of components are not in conflict with conditions of use:		N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	ATTA		ATZA
	- Electrical terminals and connectors of MULTIPLE SOCKET-OUTLETS prevent incorrect connection of accessible connectors removable without a TOOL		N/A
	- POWER SUPPLY CORD complied with 8.11.3		N/A
	d) Additional requirements applied when MULTIPLE SOCKET-OUTLET combined with a separating transformer:		N/A
	- Separating transformer complied with IEC 61558-2-1, except requirements of maximum RATED output power of 1 kVA and degree of protection IPX4 were not applied		N/A
	- Separating transformer is CLASS I		N/A
	<ul> <li>Degree of protection against ingress of water specified as in IEC 60529</li> </ul>	,	N/A
	- Separating transformer assembly marked according to 7.2 and 7.3		N/A
	MULTIPLE SOCKET-OUTLET permanently connected to separating transformer, or socket-outlet of separating transformer assembly cannot accept MAINS PLUGS as identified in IEC/TR 60083		N/A
16.9.2.2	Removal of any single item of equipment in ME SYSTEM will not interrupt the protective earthing of any other part without simultaneous disconnection of electrical supply to that part		N/A
	Additional PROTECTIVE EARTH CONDUCTORS can be detachable only by use of a TOOL	)	N/A
16.9.2.3	Conductors connecting different items within an ME SYSTEM protected against mechanical damage		N/A

			$\nu$
17	ELECTROMAGNETIC COMPATIBILITY OF ME EQUIPMENT AND ME SYSTEMS		N/A
	RISKS associated with items addressed in RISK MANAGEMENT PROCESS as confirmed by review.:	Not evaluated by Victronic Technology Corporation.	N/A
	electromagnetic phenomena at locations     where ME EQUIPMENT OR ME SYSTEM is to be used     as stated in ACCOMPANYING DOCUMENTS		N/A
	- introduction of electromagnetic phenomena into environment by ME EQUIPMENT OR ME SYSTEM that might degrade performance of other devices, electrical equipment, and systems		N/A

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IEC 60601-1			
Clause	Requirement + Test	Result - Remark	Verdict

			11///
ANNEX G	PROTECTION AGAINST HAZARDS OF IGNITION OF FLAMMABLE ANESTHETIC MIXTURES		N/A
G.2	Locations and basic requirements		N/A
G.2.1	Parts of CATEGORY APG ME EQUIPMENT in which a FLAMMABLE ANESTHETIC MIXTURE WITH AIR OCCURS are CATEGORY AP Or APG ME EQUIPMENT and complied with G.3, G.4, and G.5	Equipment not suitable for use in the presence of FLAMMABLE ANESTHETIC MIXTURES	N/A
G.2.2	FLAMMABLE AESTHETIC MIXTURE WITH AIR OCCURRING due to a leakage or discharge of a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE from an ENCLOSURE considered 5 to 25 cm from point of occurrence		N/A
G.2.3	A FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE contained in a completely / partly enclosed ME EQUIPMENT part and in PATIENT'S respiratory tract 5 cm from an ENCLOSURE part where leakage or discharge occurs		N/A
G.2.4	ME EQUIPMENT or parts thereof specified for use with FLAMMABLE AESTHETIC MIXTURE WITH AIR (in a location as in G.2.2) are CATEGORY AP OR APG ME EQUIPMENT and complied with G.4 and G.5		N/A
G.2.5	ME EQUIPMENT or parts thereof for use with FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE (location per G.2.2) are CATEGORY APG ME EQUIPMENT and comply with G.4 and G.6		N/A
	ME EQUIPMENT in G.2.3 to G.2.5 met appropriate tests of G.3-G.5 conducted after tests of 11.6.6 and 11.6.7		N/A
G.3	Marking, ACCOMPANYING DOCUMENTS		N/A
G.3.1	CATEGORY APG ME EQUIPMENT prominently marked. with a green-coloured band ≥ 2 cm wide with letters "APG" according to symbol 23 in Table D.1	Equipment not suitable for use in the presence of FLAMMABLE ANESTHETIC MIXTURES	N/A
	Length of green-coloured band is ≥ 4 cm, and size of marking is as large as possible for particular case		N/A
	When above marking not possible, relevant information included in instructions for use		N/A
	Marking complied with tests and criteria of 7.1.2 and 7.1.3		N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
G.3.2	CATEGORY AP ME EQUIPMENT prominently marked, with a green-coloured circle ≥ 2 cm in diameter, with characters "AP" according to symbol 22 in Table D.1		N/A	
	Marking is as large as possible for the particular case		N/A	
	When above marking not possible, the relevant information included in instructions for use:		N/A	
	Marking complied with tests and criteria of 7.1.2 and 7.1.3		N/A	
G.3.3	The marking according to G.3.2 and G.3.3 placed on major part of ME EQUIPMENT for CATEGORY AP or APG parts, and not repeated on detachable parts that can only be used with the marked EQUIPMENT		N/A	
G.3.4	ACCOMPANYING DOCUMENTS contain an indication enabling the RESPONSIBLE ORGANIZATION to distinguish between CATEGORY AP and APG parts		N/A	
G.3.5	Marking clearly indicates which parts are CATEGORY AP or APG when only certain ME EQUIPMENT parts are CATEGORY AP Or APG		N/A	
G.4	Common requirements for CATEGORY AP and CATE	EGORY APG ME EQUIPMENT	N/A	
G.4.1	a) CREEPAGE and CLEARANCES between points of POWER SUPPLY CORD connection are according to Table 12 for one MEANS OF PATIENT PROTECTION	Equipment not suitable for use in the presence of FLAMMABLE ANESTHETIC MIXTURES	N/A	
	b) Connections, except those in circuits described in G.5.3 and G.6.3, protected against accidental disconnection in NORMAL USE or connection and disconnection can be performed only with a TOOL		N/A	
	c) CATEGORY AP and APG not provided with a DETACHABLE POWER SUPPLY CORD, except when circuit complied with G.5.3 and G.6.3		N/A	
G.4.2	Construction details	•	N/A	
	a) Opening of an ENCLOSURE providing protection against penetration of gases or vapours into ME EQUIPMENT or its parts possible only with a TOOL		N/A	
	b) ENCLOSURE complies with requirements to minimize arcing and sparking due to penetration of foreign objects:		N/A	

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IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict	
	no openings on top covers of ENCLOSURE, except for openings for controls covered by control knobs		N/A	
	openings in side-covers prevented penetration of a solid cylindrical test rod of 4 mm in diameter applied in all possible directions without appreciable force		N/A	
	openings in base plates prevented penetration of a solid cylindrical test rod of 12 mm in diameter applied in all directions without appreciable force		N/A	
	c) Short circuiting conductor(s) to a conductive part without presence of explosive gasses where insulation may contact a part containing a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE, ignitable gases alone, or oxygen, did not result in loss of integrity of the part, an unacceptable temperature, or other HAZARD		N/A	
G.4.3	a) Electrostatic charges prevented on CATEGORY AP and APG ME EQUIPMENT by a combination of appropriate measures		N/A	
	- Use of antistatic materials with a limited electrical resistance as specified in G.4.3 b) :		N/A	
	- Provision of electrically conductive paths from ME EQUIPMENT or its parts to a conductive floor, protective earth or potential equalization system, or via wheels to an antistatic floor of medical room		N/A	
	b) Electrical resistance limits of aesthetic tubing, mattresses and pads, castor tires, and other antistatic material complied with ISO 2882 based on measurements according to ISO 1853, ISO 2878 and ISO 23529:		N/A	
G.4.4	Corona cannot be produced by components or parts of ME EQUIPMENT operating at more than 2000 V a.c. or 2400 V d.c. and not included in ENCLOSURES complying with G.5.4 or G.5.5		N/A	
G.5	Requirements and tests for CATEGORY AP ME EQUI	PMENT, parts and components	N/A	
G.5.1	ME EQUIPMENT, its parts or components do not ignite FLAMMABLE AESTHETIC MIXTURES WITH AIR under NORMAL USE and CONDITIONS based on compliance with G.5.2 to G.5.5 (inclusive)	Equipment not suitable for use in the presence of FLAMMABLE ANESTHETIC MIXTURES	N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
	Alternatively, ME EQUIPMENT, its parts, and components complied with requirements of IEC 60079-0 for pressurized ENCLOSURES (IEC 60079-2); for sand-filled ENCLOSURES, IEC 60079-5; or for oil immersed equipment, IEC 60079-6; and with this standard excluding G.5.2 to G.5.5:		N/A
G.5.2	ME EQUIPMENT, its parts, and components in contact with gas mixtures in NORMAL USE and CONDITIONS not producing sparks and not resulting in surface temperatures above 150 °C in case of restricted or 200 °C in case of unrestricted vertical air circulation measured at 25 °C comply with G.5.1		N/A
G.5.3	ME EQUIPMENT, its parts, and components producing sparks in NORMAL USE and CONDITION complied with temperature requirements of G.5.2, and $U_{max}$ and $I_{max}$ occurring in their circuits, and complied as follows:		N/A
	Measured $U_{max} \le U_{zR}$ with $I_{zR}$ as in Fig. G.1:		N/A
	Measured $U_{max} \le U_c$ with $C_{max}$ as in Fig. G.2:		N/A
	Measured $I_{max} \le I_{zR}$ with $U_{zR}$ as in Fig G.1:		N/A
	Measured $I_{max} \le I_{zL}$ with $L_{max}$ and a $U_{max} \le 24 \text{ V}$ as in Fig G.3:		N/A
	<ul> <li>Combinations of currents and corresponding voltages within the limitations IzR.UzR ≤ 50 W extrapolated from Fig G.1</li> </ul>		N/A
	No extrapolation made for voltages above 42 V		N/A
	<ul> <li>Combinations of capacitances and corresponding voltages within limitations of C/2U<sup>2</sup> ≤ 1.2 mJ extrapolated from Fig G.2</li> </ul>		N/A
	No extrapolation made for voltages above 242V		N/A
	$U_{\text{max}},$ additionally, determined using actual resistance R when the equivalent resistance R was less than 8000 $\Omega$		N/A
	- Combinations of currents and corresponding inductances within limitations $L/2l^2 \le 0.3$ mJ extrapolated from Fig G.3		N/A
	No extrapolation made for inductances larger than 900 mH		N/A
A.	- U <sub>max</sub> was the highest supply voltage occurring in circuit under investigation with sparking contact open, taking into consideration MAINS VOLTAGE variations in 4.10		N/A

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IEC 60601-1				
Clause	Requirement + Test	Result - Remark	Verdict	
	- I <sub>max</sub> was the highest current flowing in circuit under investigation with sparking contact closed, taking into consideration MAINS VOLTAGE variations required in 4.10		N/A	
	– $C_{\text{max}}$ and $L_{\text{max}}$ taken as values occurring at the component under investigation producing sparks		N/A	
774	- Peak value considered when a.c. supplied		N/A	
	<ul> <li>An equivalent circuit calculated to determine equivalent max capacitance, inductance, and equivalent U<sub>max</sub> and I<sub>max</sub>, either as d.c. or a.c. peak values in case of a complicated circuit:</li> </ul>		N/A	
	Temperature measurements made according to 11.1, and $U_{max}$ , $I_{max}$ , $R$ , $L_{max}$ , and $C_{max}$ determined with application of Figs G.1-G.3:		N/A	
	Alternatively, compliance was verified by examination of design data		N/A	
G.5.4	External ventilation with internal overpressure		N/A	
	ME EQUIPMENT, its parts, and components enclosed in an ENCLOSURE with external ventilation by means of internal overpressure complied with the following requirements:		N/A	
	a) FLAMMABLE AESTHETIC MIXTURES WITH AIR that might have penetrated into ENCLOSURE of ME EQUIPMENT or part removed by ventilation before EQUIPMENT energized, and penetration of such mixtures during operation was prevented by maintenance of overpressure by means of air without flammable gases, or by physiologically acceptable inert gas (e.g., nitrogen)		N/A	
	b) Overpressure inside ENCLOSURE was 75 Pa, min., in NORMAL CONDITION (Pa):		N/A	
	Overpressure maintained at the site of potential ignition even when air or inert gas could escape through openings in ENCLOSURE necessary for normal operation of ME EQUIPMENT or its parts		N/A	
	ME EQUIPMENT could be energized only after the required minimum overpressure was present long enough to ventilate the ENCLOSURE so that the displaced volume of air or inert gas was at least five times the volume of ENCLOSURE		N/A	
	ME EQUIPMENT energized at will or repeatedly when overpressure was continuously present		N/A	

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Clause	Requirement + Test	Result - Remark	Verdict
	c) Ignition sources de-energized automatically by means used where G.4 does not apply, or complied with G.5 when during operation overpressure dropped below 50 Pa (Pa):		N/A
	d) External surface of ENCLOSURE in which internal overpressure was maintained did not exceed 150 °C in 25 °C ambient under NORMAL USE and CONDITION (°C)		N/A
G.5.5	ENCLOSURES with restricted breathing		N/A
	ME EQUIPMENT, its parts, and components enclosed in an ENCLOSURE with restricted breathing complied with the following:		N/A
	a) A FLAMMABLE AESTHETIC MIXTURE WITH AIR did not form inside ENCLOSURE with restricted breathing when it was surrounded by a FLAMMABLE AESTHETIC MIXTURE WITH AIR of a high concentration for at least 30 min without any pressure difference inside ENCLOSURE		N/A
	b) Gasket or sealing material used to maintain tightness complied with aging test B-b of IEC 60068-2-2, Clause 15, at 70 °C ± 2 °C and 96 h:		N/A
	c) Gas-tightness of ENCLOSURE containing inlets for flexible cords maintained when the cords were stressed by bending or pulling		N/A
	Cords are fitted with adequate anchorages to limit stresses		N/A
	After the test in G.5.4 b), an internal overpressure of 400 Pa was created and 30 pulls of the value in Table G.1 applied to each flexible cord in axial direction of cord inlet and in the least favourable direction for 1 s		N/A
	Overpressure not reduced below 200 Pa	AT.	N/A
	Tests waived when examination of ENCLOSURE indicated it is completely sealed or gas-tight without a doubt (100 % degree of certainty)		N/A
	Operating temperature of external surface of ENCLOSURE was ≤ 150 °C in 25 °C (°C):		N/A
	Steady state operating temperature of ENCLOSURE also measured (°C)		N/A
<b>G.6</b> //	CATEGORY APG ME EQUIPMENT, parts and compone	nts thereof	N/A
G.6.1	ME EQUIPMENT, its parts, and components did not ignite FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE under NORMAL USE and SINGLE FAULT CONDITION	Equipment not suitable for use in the presence of FLAMMABLE ANESTHETIC MIXTURES	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	ME EQUIPMENT, its parts, and components not complying with G.6.3 subjected to a CONTINUOUS OPERATION test after attaining thermal steady state (max. 3 h) over a period of 10 min in a 12.2 % ± 0.4 ether by volume/oxygen mixture		N/A
G.6.2	Parts and components of CATEGORY APG ME EQUIPMENT operating in a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE supplied from a source isolated from earth by insulation equal to one MEANS OF PATIENT PROTECTION and from electrical parts by insulation twice the MEANS OF PATIENT PROTECTION:		N/A
G.6.3	Test of G.6.1 waived when the following requirements were met in NORMAL USE and under NORMAL and SINGLE FAULT CONDITIONS:		N/A
	a) no sparks produced and temperatures did not exceed 90 °C, or		N/A
	b) a temperature limit of 90 °C not exceeded, sparks produced in NORMAL USE, and SINGLE FAULT CONDITIONS, except $U_{max}$ and $I_{max}$ occurring in their circuits complied with requirements, taking $C_{max}$ and $L_{max}$ into consideration:		N/A
	Measured U <sub>max</sub> ≤ U <sub>zR</sub> with I <sub>zR</sub> as in Fig. G.4 :		N/A
	Measured U <sub>max</sub> ≤ U <sub>zC</sub> with C <sub>max</sub> as in Fig. G.5		N/A
\\// <sub>1</sub>	Measured I <sub>max</sub> ≤ I <sub>zR</sub> with U <sub>zR</sub> as in Fig G.4		N/A
	Measured $I_{max} \le I_{zL}$ with $L_{max}$ and a $U_{max} \le 24 \text{ V}$ as in Fig G.6		N/A
	- Extrapolation from Figs G.4, G.5, and G.6 was limited to areas indicated		N/A
	<ul> <li>U<sub>max</sub> was the highest no-load voltage occurring in the circuit under investigation, taking into consideration mains voltage variations as in 4.10</li> </ul>		N/A
	- I <sub>max</sub> was the highest current flowing in the circuit under investigation, taking into account MAINS VOLTAGE variations as in 4.10		N/A
	- C <sub>max</sub> and L <sub>max</sub> are values occurring in relevant circuit		N/A
	– $U_{max}$ additionally determined with actual resistance R when equivalent resistance R in Fig G.5 was less than 8000 $\Omega$		N/A
	<ul> <li>Peak value taken into consideration when a.c. supplied</li> </ul>		N/A





	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	ATTA	A	$17\Delta$
	<ul> <li>An equivalent circuit calculated to determine max capacitance, inductance, and U<sub>max</sub> and I<sub>max</sub>, either as d.c. or a.c. peak values in case of a complicated circuit</li> </ul>		N/A
	- When energy produced in an inductance or capacitance in a circuit is limited by voltage or current-limiting devices, two independent components applied, to obtain the required limitation even when a first fault (short or open circuit) in one of these components		N/A
	Above requirement not applied to transformers complying with this standard		N/A
	Above requirement not applied to wire-wound current-limiting resistors provided with a protection against unwinding of the wire in case of rupture		N/A
	Compliance verified by examination of CATEGORY APG ME EQUIPMENT, parts, and components, or		N/A
	Temperature measurements made in accordance with 11.1, or		N/A
	U <sub>max</sub> , I <sub>max</sub> , R, L <sub>max</sub> and C <sub>max</sub> determined together with application of Figs G.4-G.6:		N/A
	Alternatively, compliance verified by comparison with design data		N/A
G.6.4	ME EQUIPMENT, its parts, and components heating a FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE provided with a non-SELF-RESETTING THERMAL CUT-OUT and complied with 15.4.2.1		N/A
	Current-carrying part of heating element is not in direct contact with FLAMMABLE AESTHETIC MIXTURE WITH OXYGEN OR NITROUS OXIDE		N/A
G.7	Test apparatus for flammable mixtures		N/A
	Test apparatus used was in accordance with this Clause and Fig G.7	Equipment not suitable for use in the presence of FLAMMABLE ANESTHETIC MIXTURES	N/A
	<u></u>		
ANNEX L	INSULATED WINDING WIRES FOR USE WITHOUNSULATION	JT INTERLEAVED	N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
L.1	BASIC, SUPPLEMENTARY, DOUBLE, and REINFORCED INSULATION in wound components without interleaved insulation complied with this Annex covering round winding wires between 0.05 mm and 5.00 mm diameters	Evaluated in part of power supply	N/A
L.2	Wire construction		N/A
	Overlap of layers when wire is insulated with two or more spirally wrapped layers of tape is adequate to ensure continued overlap during manufacture of wound component		N/A
	Layers of spirally wrapped wire insulation are sufficiently secured to maintain the overlap		N/A
L.3	Type Test		N/A
	The wire subjected to tests of L.3.1 to L.3.4 at a temperature and a relative humidity specified	Evaluated in part of power supply	N/A
	Temperature (°C):		_
	Humidity (%)		_
L.3.1	Dielectric strength		
	Dielectric strength test of Clause 8.8.3 for the appropriate type and number of MOP(s) conducted by preparing the sample according to IEC 60851-5:1996, Clause 4.4.1 for a twisted pair with test voltages at least twice Tables 6 & 7, but not less than below with no breakdown:	Evaluated in part of power supply	N/A
	- 3000 V for BASIC and SUPPLEMENTARY INSULATION (V):		N/A
	- 6000 V for REINFORCED INSULATION (V):		N/A
3.2	Flexibility and adherence		N/A
	Sample subjected to flexibility and adherence test 8 of IEC 60851-3:1996, clause 5.1.1, using mandrel diameters of Table L.1	Evaluated in part of power supply	N/A
	Sample examined according to IEC 60851-3: 1997, clause 5.1.1.4, followed by dielectric test of clause 8.8.3, except test voltage applied between wire and mandrel with no breakdown		N/A
	Test voltage was at least the voltage in Tables 6 and 7but not less than the following:		N/A
	- 1500 V for BASIC and SUPPLEMENTARY INSULATION (V)		N/A
	- 3000 V for REINFORCED INSULATION (V):		N/A

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	IEC 60601-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Tension applied to wire during winding on mandrel calculated from the wire diameter equivalent to 118 MPa ± 11.8 MPa:		N/A
3.3	Heat Shock		N/A
	Sample subjected to heat shock test 9 of IEC 60851-6:1996, followed by dielectric strength test of clause 8.8.3, except test voltage applied between the wire and mandrel	Evaluated in part of power supply	N/A
30	Test voltage was at least the voltage in Tables 6 and 7, but not less than the following:		N/A
	- 1500 V for BASIC and SUPPLEMENTARY INSULATION (V):		N/A
	- 3000 V for REINFORCED INSULATION (V):		N/A
	Oven temperature based on Table L.2 (°C):	4	_
	Mandrel diameter and tension applied as in clause L.3.2, (MPa; N/mm²):		N/A
	Dielectric strength test conducted at room temperature after removal from the oven		N/A
3.4	Retention of electric strength after bending		N/A
	Five samples prepared as in L.3.2 subjected to dielectric strength and bending tests	Evaluated in part of power supply	N/A
	Test voltage was at least the voltage in Tables 6 and 7, but not less than the following:		N/A
	- 1500 V for BASIC and SUPPLEMENTARY INSULATION (V):		N/A
	- 3000 V for REINFORCED INSULATION (V):		N/A
	Test voltage applied between the shot and conductor.		N/A
	Mandrel diameter and tension applied as in L.3.2, (MPa; N/mm²):		N/A
4	Tests during manufacture		N/A
4.1	Production line dielectric strength tests conducted by the manufacture according to L.4.2 and L.4.3	Not required since all related insulation will be confirmed during power supply manufacturing.	N/A
4.2	Test voltage for routine testing (100 % testing) is at least the voltage in Tables 6 and 7 but not less than the following:		N/A
	- 1500 V r.m.s. or 2100 V peak for BASIC and SUPPLEMENTARY INSULATION (V)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- 3000 V r.m.s. or 4200 V peak for REINFORCED INSULATION (V)		N/A
L.4.3	Sampling tests conducted using twisted pair samples (IEC 60851-5:1996, clause 4.4.1)	Not required since all related insulation will be confirmed during power supply manufacturing.	N/A
	Minimum breakdown test voltage at least twice the voltage in Tables 6 and 7 but not less than:		N/A
	- 3000 V r.m.s. or 4200 V peak for BASIC and SUPPLEMENTARY INSULATION		N/A
	- 6000 V r.m.s. or 8400 V peak for REINFORCED INSULATION		N/A

















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IEC 60601-1					
Clause	Requirement + Test	Result - Remark	Verdict		
		·			

,				
	4.2	RM RESULTS TABLE: Risk Ma Systems	nagement Process for ME Equipment or ME	Pass
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
	3.3a	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Additional documents	The Risk Management Procedure define the policy for determining acceptable risk, taking into account relevant International Standards, and national or regional regulations	Pass
	3.5e	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Definition of Risk Graph</li> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section -</li> </ul>	The Risk Management Plan defined the criteria for risk acceptability.	Pass
	4.1	Release Criteria  ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Criteria	Risk Analysis procedure	Pass
	4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	Intended use and identification of characteristics are well defined	Pass
	4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis	All hazards associated with the device have been identified. The associated risk for some of them would need to be re-assessed based on the end system assembly and its intended use.	Pass
	4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures	The estimates of the risk(s) were recorded in the risk management file	Pass
	5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures	The results of this risk evaluation were recorded in the risk management file	Pass
		<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures</li> </ul>		
	6.1	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Decision about measures	The manufacturer follow the process specified in 6.2 to 6.7 of ISO 14971 to control the risk(s) so that the residual risk(s) associated with each hazard is judged acceptable	Pass
	6.2	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures	The risk control measures selected were recorded in the risk management file	Pass

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		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
4.2	RM RESULTS TABLE: Risk Ma Systems	nagement Process for ME Equipment or ME	Pass
Clause of ISO 14971		Result - Remarks	Verdict
6.3	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures	The effectiveness of the risk control measures had been verified and the results of the verification were recorded in the risk management file.	Pass
6.4	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Evaluation After Measures ONYX-BE381DT_RMF_ Version: 4.00 Section	All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in the risk management plan.	Pass
	Version: 1.00 , Section - Risk Graph After Measures  ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results		
6.5	of the Risk  ONYX-BE381DT_RMF_ Version: 1.000, Project Team, Team Member Task/Status/Misc: Lead the risk/benefit analysis when applicable	When applicable Project Team will lead the risk/benefit analysis.	Pass
	ONYX-BE381DT_RMF_     Version: 1.00, Section -     Evaluation of Residual     Risk – Remaining     Residual Risk,     Assessment Summary		
	◆ ONYX-BE381DT_RMF_ Version: 1.00, Section – Evaluation After Measures – Risk- Benefit- Analysis		
6.6	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Evaluation After Measures	The risk control measures have been reviewed to identify if other hazards are introduced.	Pass
	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Evaluation of Residual Risk		
6.7	ONYX-BE381DT_RMF_     Version: 1.00 , Section -     Overview of the Results     of the Risk	The manufacturer assures that the risk(s) from all identified hazards have been evaluated.	Pass

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		IEC 60601-1		
Clause	Requirement + Test Result - Remark			
	ΛηΓΔ	7 /	17.4	
4.2	RM RESULTS TABLE: Risk Ma Systems	nagement Process for ME Equipment or ME	Pass	
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
7	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Evaluation of Residual Risk	After all risk control measures have been implemented and verified, the manufacturer decide the overall residual risk posed by the monitor is acceptable using the criteria defined in the risk management plan.	Pass	

4.3	TABLE: ESSENTIAL PERFORMANCE			N/A
List of ESSENTIAL reference or I		MANUFACTURER'S document number reference or reference from this standard or collateral or particular standard(s)	Remar	ks
	<i>(</i>			$\rightarrow$
				WA
	(			

# **Supplementary Information:**

ESSENTIAL PERFORMANCE is performance, the absence or degradation of which, would result in an unacceptable risk.

$\sqrt{17}\Delta$		$\Lambda \eta \tau \Delta$			
4.3	RM RESULTS TABLE: Essential Performance				
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
4.2					
4.3					
4.4					
5			177		
			W//		

4.5	RM RESULTS TABLE: Equivalent	N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)  Result - Remarks		
4.2			
4.3			
4.4			
5		(NV2	
6.2			
6.3			
6.4			
6.5			

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	IEC	60601-1	
Clause	Requirement + Test	Result - Remark	Verdict

4.6	RM RESULTS TABLE: ME Equipment or system parts contacting the patient			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Verdict		
4.2				
4.3				
4.4				
5				
6.2				
6.3				
6.4				
6.5				

4.7	RM RESULTS TABLE; Single F	ault Condition for ME Equipment	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis	The manufacturer had compiled a list of known or foreseeable hazards associated with the unit in both normal and fault conditions.	Pass
4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures, F-01 (H-01, H-02); F-02 (H-01, H-02); F- 03 (H-01); F-04 (H-01); F- 05 (H-01); F-06 (H-01), F- 07 (H-01, H-02, H-03); F- 08 (H-01); F-09 (H-01); F- 10 (H-01); F-11 (H-01, H-02)	The estimates of the risk(s) were recorded in the risk management file.	Pass

4.8	RM RESULTS TABLE: Components of ME Equipment		Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)  Result - Remarks		Verdict
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass

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		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
4.8	RM RESULTS TABLE: Com	ponents of ME Equipment	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph	Result - Remarks	Verdict
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Analysis		Pass
4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Evaluation Before Measures, F-01, H-01, 0 07, C-08	- the risk management file.	Pass
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Evaluation Before Measures, F-01, H-01, 0 07, C-08	recorded in the risk management file.	Pass
	ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Graph Before Measures		
6.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Release Protocols of Measures, RC-001, RC- 002, RC-031, RC-033	- recorded in the risk management file	Pass
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Release Protocols of Measures, RC-001, RC- 002, RC-031, RC-033	<ul> <li>measures had been verified and the results of the verification were recorded in the risk</li> </ul>	Pass
6.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section New evaluation after measures, F-01, H-01, 0 07, C-08	- control measure(s) are applied and evaluated using the criteria that defined in	Pass
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Graph After Measures		
	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section Overview of the Result of the Risk</li> </ul>	-	
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A



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Clause	Requirement + Test	Result	- Remark	Verdict		
	ATRA			174		
4.9	RM RESULTS TABLE: Use of c	omponents with high-into	egrity characteristics	\\/\/ <b>N</b> /A		
Clause of ISO 14971   Document Ref. in RMF (Document No. & paragraph)   Result - Remar				Verdict		
4.2						
4.3						
4.4						
5,7						
6.2						
6.3						
6.4						
6.5						

4.11	4.11 TABLE: Power Input					
Operat	ing Conditions / Ratings	Voltage (V)	Frequency (Hz)	Current (A)	Power (W <del>or VA</del> )	Power factor (cos φ)
Maximum n	ormal load /	90	50	0.469	23.3	
Maximum n	ormal load /	90	60	0.473	23.4	
Maximum n	ormal load / 1.2A	100	50	0.444	23.2	
Maximum n	ormal load / 1.2A	100	60	0.450	23.2	
Maximum n	ormal load / 0.63A	240	50	0.227	23.8	
Maximum n	ormal load / 0.63A	240	60	0.227	23.8	
Maximum n	ormal load /	264	50	0.213	23.9	
Maximum n	ormal load /	264	60	0.214	23.9	
Maximum n	ormal load / 4.2A	12 Vdc		1.79	21.48	

Supplementary Information:

Adapter: HITRON ELECTRONICS CORP type HEMG50-S120420-7

"MAXIMUM NORMAL LOAD" was defined as follows: LCD with max. brightness and contrast, with two USB2.0 (two USB2.0 port total load 5W).

5.1	RM RESULTS TABLE: Type Te	RM RESULTS TABLE: Type Tests		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)  Result - Remarks		Verdict	
4.2	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass	
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis	The manufacturer had compiled a list of known or foreseeable hazards associated with the risk analysis of unit type.	Pass	

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Measures

		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
	ATPA	A	17.4
5.1	RM RESULTS TABLE: Type Te	ests	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures  The estimates of the risk(s) were recorded in the risk management file.		
777		ATRA	
5.4 a)	RM RESULTS TABLE: Other C	onditions	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis	The manufacturer had compiled a list of known or foreseeable hazards situation have been identified.	Pass
4.4	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before	The estimates of the risk(s) were recorded in the risk management file	Pass

5.7	RM RESULTS TABLE: Humidit	y preconditioning treatment	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data</li> </ul>	The RMF mention the "Intended use/intended purpose"	Pass
4.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis, F-01, H- 01, C-09	The manufacturer had compiled a list of known or foreseeable hazards associated with the humidity preconditioning treatment.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures, F-01, H-01, C- 09	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 09	The results of this risk evaluation were recorded in the risk management file.	Pass
	ONYX-BE381DT_RMF_     Version: 1.00 , Section -     Risk Graph Before     Measures		

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			IEC 60601-1		
Clause	Requi	rement + Test		Result - Remark	Verdict
		<u> </u>		(\)	17/4
5.7 RM RESULTS TABLE: Humidity preconditioning tre				treatment	Pass
Clause of ISO 14971				(S	Verdict
6.2	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures, RC-024		measures selected were risk management file.	Pass
6.3	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures, RC-024  The effectiveness of the risk control measures had been verified and the results of the verification were recorded in the risk management file.		Pass		
6.4	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures, F-01, H-01, C- 09	control measure	that remains after the risk e(s) are applied and the criteria that defined in ement plan	Pass
	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures			
	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk			
6.5	N/A		No reduction of analysis	risk through Risk/benefit	N/A

			V	
5.9.2	TABLE: De	etermination of ACCESSIBLE parts		Pass
Location Determination method (NOTE1) Comments				
Output connector		rigid test finger	The plastic / metal enclosure serves a mechanical / electrical / fire enclosure	
Enclosure		rigid test finger	The plastic / metal enclosur mechanical / electrical / fire	
Supplementary information:				
NOTE 1 -	The determin	ation methods are: visual; rigid test finger; jo	pinted test finger; test hook.	¥

5.9.2.3	RM RESULTS TABLE: Actuating mechanisms		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2			

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		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
	ATTA	-	ATZA
5.9.2.3	RM RESULTS TABLE: Actuating	ng mechanisms	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
6.3			
6.4			
6.5			

7.1.2	TABLE: Legibility of Marking		7	Pass
Markings	tested	Ambient illuminance (lx)	Remarks	
Outside Markings (Clause 7.2):		1500 (lx) and 100 (lx)	Clearly readab	le
Inside Ma	rkings (Clause 7.3):			
Controls	& Instruments (Clause 7.4):			
Safety Sig	gns (Clause 7.5):		7	17/4
Symbols (Clause 7.6):				

### **Supplementary information:**

Observer, with a visual acuity of 0 on the log Minimum Angle of Resolution (log MAR) scale or 6/6 (20/20), reads marking at ambient illuminance least favourable level in the range of 100 lx to 1,500 lx. The ME EQUIPMENT or its part was positioned so that the viewpoint was the intended position of the OPERATOR at any point within the base of a cone subtended by an to the axis normal to the centre of the plane of the marking and at a distance of 1 m.

7.1.3	TABLE: Durability of marking test			Pass
Characteris	stics of the Marking Label tested:		Re	marks
Material of	Marking Label:	Car Tong Co, type CT-M002		
Ink/other p	rinting material or process:	Ink		
Material (co	omposition) of Warning Label:			
Ink/other p	rinting material or process::		- ()/	17/4
Other			()	

### **Supplementary information:**

Marking rubbed by hand, first for 15 s with a cloth rag soaked with distilled water, then for 15 s with a cloth rag soaked with methylated spirit, and then for 15 s with a cloth rag soaked with isopropyl alcohol.

7.2.2	RM RESULTS TABLE: Identifica	ation	Pass
Clause of	Document Ref. in RMF	Result - Remarks	Verdict
ISO 14971	(Document No. & paragraph)		

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Î	IEC 60601-1				
	Clause	Requirement + Test	Result - Remark	Verdict	
Ī				174	
ļ	7.2.2	RM RESULTS TABLE: Identific	ation	Pass	
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
	4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass	
	4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-07, H- 01, H-02, H-03	The manufacturer had compiled a list of known or foreseeable hazards about identification of equipment.	Pass	
	4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-07, H-01, H- 02, H-03	The estimates of the risk(s) were recorded in the risk management file.	Pass	
	5	♦ ONYX-BE381DT_RMF_ Version: 1.00, Section - Risk Evaluation Before Measures: F-07, H-01, H- 02, H-03	The results of this risk evaluation were recorded in the risk management file.	Pass	
		◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures			
	6.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-07, H-01, H- 02, H-03	All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in the risk management plan.	Pass	
		ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures			
		ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk			

7.2.5	RM RESULTS TABLE: ME EQU	RM RESULTS TABLE: ME EQUIPMENT powered from other equipment	
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.27		$\Lambda \pi r \Lambda$	
4.3			
4.4			
5			
6.4			







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Clause	Requirement + Test	Result - Remark	Verdict		
		·			

7.2.13	RM RESULTS TABLE: Physiological effects (safety signs and warning)		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.3			

7.2.17	RM RESULTS TABLE: Protective	e packaging	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass
4.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 01, C-20	The manufacturer had compiled a list of known or foreseeable hazards associated with packing conditions.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 20	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 20	The results of this risk evaluation were recorded in the risk management file.	Pass
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures		
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-028, RC- 029	The effectiveness of the risk control measures had been verified and the results of the verification were recorded in the risk management file.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
•		1	17.4
7.2.17	RM RESULTS TABLE: Protective	ve packaging	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
6.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-01, H-01, C- 20 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section -	All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in the risk management plan.	Pass
	Overview of the Results of the Risk		

7.3.3	RM RESULTS TABLE: Batteries		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
57/		ATRA	
6,3			

7.3.7	RM RESULTS TABLE: Supply terminals		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3			

	4772		1774
7.4.2	RM RESULTS TABLE: Control devices		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5 7			
6.2			
6.3			

7.5	RM RESULTS TABLE: Safety signs	N/A	
-----	--------------------------------	-----	--

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Clause	Requirement + Test	Result - Remark	Verdict		
	ΛηςΔ				
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
4.2					
4.3					
4.4					
6.3					
\ <del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>		\\\\/ <sub>/7</sub>			

7.9.1	RM RESULTS TABLE: General	accompanying documents (See Table C.4)	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass
4.3	ONYX-BE381DT_RMF_ Version: 1.00, Section - Risk Analysis: F-07, H- 01, H-02, H-03	The manufacturer had compiled a list of known and foreseeable hazards, associated with the content and format of the accompanying documents have been evaluated.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-07, H-01, H- 02, H-03	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-07, H-01, H- 02, H-03	The results of this risk evaluation were recorded in the risk management file.	Pass
	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures		
6.2	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-011	The results of this risk evaluation were recorded in the risk management file.	Pass
6.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-011	The results of this risk evaluation were recorded in the risk management file.	Pass

7.9.2.4	RM RESULTS TABLE: Electrical power source		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict

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	IEC 60601-1					
Clause	Requirement + Test	Result - Remark	Verdict			
	ΛηπΛ	$\Lambda$				
7.9.2.4	RM RESULTS TABLE: Electric	al power source	N/A			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict			
4.2						
4.3						
4.4						
5						
6.3						
3//	_					

7.9.3.2	RM RESULTS TABLE: Replacement of fuses, power supply cords, other parts					N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict			
4.2						
4.3			17/4			
4.4						
5						
6.2						
6.3						
6.4						
6.5						

8.1 b(1)	RM RESULTS TABLE: Fundamental rule of protection against electric shock - interruption of any one power-carrying conductor		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 01	The manufacturer had compiled a list of known and foreseeable hazards associated with interruption of any one supply conductor have been considered.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01	The estimates of the risk(s) were recorded in the risk management file.	Pass

K	8.1 b(2)	RM RESULTS TABLE: Fundamental rule of protection against electric shock - unintended movement of a component		
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
•	4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
8.1 b(2)	RM RESULTS TABLE: Funda - unintended movement of a c	mental rule of protection against electric shock component	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 01, C-07, C-11	The manufacturer had compiled a list of known and foreseeable hazards associated with unintended movement of components have been considered.	Pass
4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 07, C-11	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 07, C-11 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures	The results of this risk evaluation were recorded in the risk management file.	Pass
6.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures, RC-002	The risk control measures selected were recorded in the risk management file.	Pass
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures, RC-002	The effectiveness of the risk control measures had been verified and the results of the verification were recorded in the risk management file.	Pass
6.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures, F-01, H-01, C- 07, C-11 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After	All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in	Pass
	Measures  ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk		
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A

8.1 b(3)	RM RESULTS TABLE: Fundamental rule of protection against electric shock	Pass
	- accidental detachment of conductors and connectors	

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	IEC 60601-1							
Clause Requirement + Test Result - Remark								
	ΛησΑ							
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict					
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 01	The manufacturer had compiled a list of known and foreseeable hazards associated with accidental detachment of conductors and connectors have been considered.	Pass					

4	8.2.2	RM RESULTS TABLE: Con	nnection to an external d.c. power sources	Pass
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragrap	Result - Remarks	Verdict
	4.2	<ul> <li>ONYX-BE381DT_RM Version: 1.00 , Section</li> <li>Version Data</li> </ul>		Pass
	4.3	♦ ONYX-BE381DT_RM Version: 1.00 , Section Risk Analysis: F-08, 01	n - known and foreseeable hazards associated	Pass
	4.4	<ul> <li>ONYX-BE381DT_RMI</li> <li>Version: 1.00 , Section</li> <li>Risk Evaluation Before</li> <li>Measures: F-08, H-01</li> </ul>	the risk management file.	Pass
4	5	◆ ONYX-BE381DT_RM Version: 1.00 , Section Risk Evaluation Before Measures: F-08, H-01	recorded in the risk management file.	Pass
/		<ul> <li>ONYX-BE381DT_RMI</li> <li>Version: 1.00 , Section</li> <li>Risk Graph Before Measures</li> </ul>		

8.3 d	RM RESULTS TABLE: Require	RM RESULTS TABLE: Requirements of Type BF or CF Applied Parts				
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict			
6.2		See also RM Table for 4.6	11/17			

Ī	8.4.2		N/A					
Ī	Test supply	voltage/frequ	uency (V/Hz) <sup>1</sup>			:		
Ī	Location			Measured value	S			
4	From/To	Vrms	Vpk or Vdc	Peak-to- peak ripple <sup>2</sup>	Power W/VA	Energy (J)	Rema	arks
	\\\\/_					7		
Ī								



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	IE	EC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
,	/ /	·	A = = A

8.4.2 TABLE: Working Voltage / Power Measurement N/A

### **Supplementary Information:**

- 1. The input supply voltage to the ME EQUIPMENT shall be the RATED voltage or the voltage within the RATED voltage range which results in the highest measured value. See clause 8.5.4.
- 2. If the d.c peak-to-peak ripple >10%, waveform considered as a.c. See clause 8.4.2.2

The adapter HITRON ELECTRONICS CORP / model HEMG50-S120420-7 was certified by IEC 60601-1: 2005 and EN 60601-1: 2006

8.4.2 c	RM RESULTS TABLE: Accessible parts including applied parts				
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
4.2	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data</li> </ul>	The RMF mention the "Intended use/intended purpose"	Pass		
4.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-04, H- 01	The manufacturer had compiled a list of known or foreseeable hazards associated with the accessible parts have been identified.	Pass		
4.4	ONYX-BE381DT_RMF_     Version: 1.00 , Section -     Risk Evaluation Before     Measures: F-04, H-01	The estimates of the risk(s) were recorded in the risk management file.	Pass		

-1	ABLE: ME EQUIPM measurement or isconnection of	f voltag	e or cal	culation	of sto					1	N/A
Maximum allo	owable voltage (	V)							: 60		
			Vo	Itage m	easurec	I (V)			·		
Voltage Meas	ured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 a	nd 2	7017	À						(	VIII/	7
Plug pin 1 an	Plug pin 1 and plug earth pin										7
Plug pin 2 an	d plug earth pin										
Plug pin 1 an	d enclosure										
Plug pin 2 an	d enclosure										
Maximum allo	owable stored c	harge w	hen me	easured	voltag	e exceed	ded 60	v (μc)	: 45		
			Calcula	ated sto	red cha	rge (μc)					
Voltage Meas	ured Between:	1	2	3	4	5	6	7	8	9	10
Plug pins 1 a	nd 2										

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	IEC	60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
	ATEA		ATTA
Plug pin '	l and plug earth pin		
Plug pin 2	2 and plug earth pin		
Plug pin '	l and enclosure		
Plug pin 2	2 and enclosure		
Suppleme	entary information:		, ,

The adapter HITRON ELECTRONICS CORP / model HEMG50-S120420-7 was certified by IEC 60601-1: 2005 and EN 60601-1: 2006

8.4.4	TABLE: Internal capacitive circuits – measurement of residual voltage or calculation of the stored charge in capacitive circuits (i.e., accessible capacitors or circuit parts) after de-energizing ME EQUIPMENT					
Maximur	n allowable residual voltage	(V):		60 V		
Maximur	n allowable stored charge w	hen residual voltage	exceeded 60 V:	45 μC	17/4	
Description of the capacitive circuit (i.e., accessible capacitor or circuit parts)		ole capacitor or circuit voltage (V)		Rem	narks	
Supplem	nentary information:					

# Supplementary information.

8.5.2.2	RM RESULTS TABLE: Type B a	applied parts	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass
4.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-11, H- 01	The manufacturer had compiled a list of known and foreseeable hazards associated with Type B applied part not protectively earthed are separated by one means of patient protection from metal accessible parts not protectively earthed have been considered.	Pass
4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-11, H-01	The estimates of the risk(s) were recorded in the risk management file.	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
8.5.2.2	RM RESULTS TABLE: Type B a	applied parts	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-11, H-01 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures	The results of this risk evaluation were recorded in the risk management file.	Pass

8.5.2.3	RM RESULTS TABLE: PATIENT Leads			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2	(715/7	( ) 7	17/4	
4.3				
4.4			4	
5				

8.5.5.1a	TABLE: defibrillation-proof applied parts – measurement of hazardous electrical energies						
Test Condition: Figs. 9 & 10		Applied part with test voltage	Test voltage polarity	Measured voltage between Y1 and Y2 (mV)	Remarks		
Supplement	Supplementary information:						

8.5.5.1b	TABLE: defib	TABLE: defibrillation-proof applied parts – verification of recovery time							
Applied part with test voltage		Test voltage polarity	Recovery time from documents (s)	Measured recovery time (s)	Remarks				
Supplementary information:									

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		IEC 60601-1		
Clause	Requirement + Test	Res	sult - Remark	Verdict
	$\Delta \pi r \Delta$			$\Delta \pi r \Delta$
8.5.5.2	NT CONNECTIONS of on test –measureme	N/A		
	Test Voltage applied to	Measured Energy E1 (mJ)	Measured Energy E2 (mJ)	Energy E1 as % of E2 (%)
PATIENT CO	NNECTION 1 or APPLIED PART with NNECTIONS 2, 3, and 4 of the same RT connected to earth			
PATIENT CO	NNECTION 2 or APPLIED PART with NNECTIONS 1, 3, and 4 of the same RT connected to earth			
PATIENT CO	NNECTION 3 or APPLIED PART with NNECTIONS 1, 2, and 4 of the same RT connected to earth			
PATIENT CO	NNECTION 4 or APPLIED PART with NNECTIONS 1, 2, and 3 of the same RT connected to earth			
	<b>ntary information</b> : For compliance: E1 ed energy delivered to 100 $\Omega$ with ME Equ		2	

E2= Measured energy delivered to 100  $\Omega$  without ME equipment connected.

\ \      /		1 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
8.6.3	RM RESULTS TABLE: Protective earthing of moving parts			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph) Result - Remarks			
4.2				
4.3				
4.4				
5	ATIZA		V4127	
6.2				
6.3				
6.4				
6.5				

4	8.6.4	TABLE: Impedance and current-connections	N/A			
	•	of ME EQUIPMENT & impedance neasured between parts	Test current (A) /Duration (s)	Voltage drop measured between parts (V)	Maximum calculated impedance (mΩ)	Maximum allowable impedance (mΩ)

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Clause Requirement + Test		Result - Remark	Verdict			
impedano	NTLY INSTALLED ME EQUIPMENT, ce between PROTECTIVE EARTH and a PROTECTIVELY EARTHED part		100			
impedand	MENT with an APPLIANCE INLET, ce between earth pin in the EINLET and a PROTECTIVELY EARTHED		100			
SUPPLY CO	MENT with a non-DETACHABLE POWER DRD, impedance between the eearth pin in the MAINS PLUG and a MELY EARTHED part		200			

## **Supplementary information:**

The adapter HITRON ELECTRONICS CORP / model HEMG50-S120420-7 was certified by IEC 60601-1: 2005 and EN 60601-1: 2006













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Clause	Requirement + Test	Result - Remark	Verdict		

				(17/4
8.7 TABLE: leakage current	1			Pass
Type of leakage current and test condition (including single faults)	Supply voltage (V)	Supply frequency (Hz)	Measured max. value (μA)	Remarks
Fig. 13 - Earth Leakage (ER)	1		1	Maximum allowed values: 5 mA NC; 10 mA SFC
Before Humidity Condition:	_	- /		_
ER, NC	264	60	172	S1 = 1, S5 = 1
ER, NC	264	60	171	S1 = 1, S5 = 0
ER, SFC (Neutral Open)	264	60	289	S1 = 0, S5 = 1
ER, SFC (Neutral Open)	264	60	290	S1 = 0, S5 = 0
After Humidity Condition:	-	-		_
ER, NC	264	60	176	S1 = 1, S5 = 1
ER, NC	264	60	174	S1 = 1, S5 = 0
ER, SFC (Neutral Open)	264	60	293	S1 = 0, S5 = 1
ER, SFC (Neutral Open)	264	60	293	S1 = 0, S5 = 0
Measured with a non-frequency- weighted device	١	1	1	Maximum allowed values: 10 mA NC; 10 mA SFC
Before Humidity Condition:	_	_		_
ER, NC	264	60	207	S1 = 1, S5 = 1
ER, NC	264	60	204	S1 = 1, S5 = 0
ER, SFC (Neutral Open)	264	60	317	S1 = 0, S5 = 1
ER, SFC (Neutral Open)	264	60	315	S1 = 0, S5 = 0
After Humidity Condition:	-	_	_	_
ER, NC	264	60	212	S1 = 1, S5 = 1
ER, NC	264	60	208	S1 = 1, S5 = 0
ER, SFC (Neutral Open)	264	60	322	S1 = 0, S5 = 1
ER, SFC (Neutral Open)	264	60	321	S1 = 0, S5 = 0
Fig. 14 - Touch Current (TC)	_	_	_	Maximum allowed values: 100 uA NC; 500 uA SFC
Before Humidity Condition:	_	_	_	MD1: between earth and output connector
TC, NC	264	60	6.28	S1 = 1, S5 = 1, S7 = 1
TC, NC	264	60	6,44	S1 = 1, S5 = 0, S7 = 1
TC, SFC (Neutral Open)	264	60	9.95	S1 = 0, S5 = 1, S7 = 1
TC, SFC (Neutral Open)	264	60	9.88	S1 = 0, S5 = 0, S7 = 1
TC, SFC (Ground Open)	264	60	79.35	S1 = 1, S5 = 1, S7 = 0

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		IEC	C 60601-1		
Clause Requirement + Test				Result - Re	emark Verdict
TC SEC /	Ground Open)	264	60	78.63	S1 = 1, S5 = 0, S7 = 0
10, 370 (	Ground Open)	204	00	76.03	MD1: between earth and
After Hum	nidity Condition:	_	_	_	output connector
TC, NC		264	60	7.26	S1 = 1, S5 = 1, S7 = 1
TC, NC		264	60	7.33	S1 = 1, S5 = 0, S7 = 1
TC, SFC (	Neutral Open)	264	60	10.45	S1 = 0, S5 = 1, S7 = 1
TC, SFC (	Neutral Open)	264	60	10.65	S1 = 0, S5 = 0, S7 = 1
TC, SFC (	Ground Open)	264	60	82.12	S1 = 1, S5 = 1, S7 = 0
TC, SFC (	Ground Open)	264	60	82.08	S1 = 1, S5 = 0, S7 = 0
Before Hu	umidity Condition:	_	_	_	MD2: between plastic enclosure with foil and metal enclosure
TC, NC		264	60	0.96	S1 = 1, S5 = 1, S7 = 1
TC, NC		264	60	0.98	S1 = 1, S5 = 0, S7 = 1
TC, SFC (	Neutral Open)	264	60	1.09	S1 = 0, S5 = 1, S7 = 1
TC, SFC (	Neutral Open)	264	60	1.11	S1 = 0, S5 = 0, S7 = 1
TC, SFC (	Ground Open)	264	60	9.07	S1 = 1, S5 = 1, S7 = 0
TC, SFC (	Ground Open)	264	60	8.97	S1 = 1, S5 = 0, S7 = 0
After Hun	nidity Condition:	_	- (		MD2: between plastic enclosure with foil and metal enclosure
TC, NC		264	60	1.03	S1 = 1, S5 = 1, S7 = 1
TC, NC		264	60	1.06	S1 = 1, S5 = 0, S7 = 1
TC, SFC (	Neutral Open)	264	60	1.76	S1 = 0, S5 = 1, S7 = 1
TC, SFC (	Neutral Open)	264	60	1.66	S1 = 0, S5 = 0, S7 = 1
TC, SFC (	Ground Open)	264	60	10.23	S1 = 1, S5 = 1, S7 = 0
TC, SFC (	Ground Open)	264	60	10.13	S1 = 1, S5 = 0, S7 = 0
Measured weighted	l with a non-frequency- device	_	_	_	Maximum allowed values: 10 mA NC; 10 mA SFC
Before Hu	umidity Condition:	_	_	_	MD1: between earth and output connector
TC, NC		264	60	111	S1 = 1, S5 = 1, S7 = 1
TC, NC		264	60	111	S1 = 1, S5 = 0, S7 = 1
TC, SFC (	Neutral Open)	264	60	16.6	S1 = 0, S5 = 1, S7 = 1
TC, SFC (	Neutral Open)	264	60	17.79	S1 = 0, S5 = 0, S7 = 1
TC, SFC (	Ground Open)	264	60	152	S1 = 1, S5 = 1, S7 = 0

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Clause Requirement + Test			Result - Re	emark Verdict		
TC, SFC (Ground Open)	264	60	150	S1 = 1, S5 = 0, S7 = 0		
After Humidity Condition:	_	_	_	MD1: between earth and output connector		
TC, NC	264	60	114	S1 = 1, S5 = 1, S7 = 1		
TC, NC	264	60	114	S1 = 1, S5 = 0, S7 = 1		
TC, SFC (Neutral Open)	264	60	17.7	S1 = 0, S5 = 1, S7 = 1		
TC, SFC (Neutral Open)	264	60	18.4	S1 = 0, S5 = 0, S7 = 1		
TC, SFC (Ground Open)	264	60	156	S1 = 1, S5 = 1, S7 = 0		
TC, SFC (Ground Open)	264	60	154	S1 = 1, S5 = 0, S7 = 0		
Before Humidity Condition:	_	_	_	MD2: between plastic enclosure with foil and metal enclosure		
TC, NC	264	60	25.07	S1 = 1, S5 = 1, S7 = 1		
TC, NC	264	60	25.15	S1 = 1, S5 = 0, S7 = 1		
TC, SFC (Neutral Open)	264	60	24.18	S1 = 0, S5 = 1, S7 = 1		
TC, SFC (Neutral Open)	264	60	24.10	S1 = 0, S5 = 0, S7 = 1		
TC, SFC (Ground Open)	264	60	19.05	S1 = 1, S5 = 1, S7 = 0		
TC, SFC (Ground Open)	264	60	18.88	S1 = 1, S5 = 0, S7 = 0		
After Humidity Condition:	_	- (		MD2: between plastic enclosure with foil and metal enclosure		
TC, NC	264	60	26.12	S1 = 1, S5 = 1, S7 = 1		
TC, NC	264	60	26.21	S1 = 1, S5 = 0, S7 = 1		
TC, SFC (Neutral Open)	264	60	25.22	S1 = 0, S5 = 1, S7 = 1		
TC, SFC (Neutral Open)	264	60	25.16	S1 = 0, S5 = 0, S7 = 1		
TC, SFC (Ground Open)	264	60	20.04	S1 = 1, S5 = 1, S7 = 0		
TC, SFC (Ground Open)	264	60	19.82	S1 = 1, S5 = 0, S7 = 0		
Fig. 15 - Patient Leakage Current (P)	_	_	_	Maximum allowed values: Type B AP: 100 uA NC; 500 uA SFC (a.c.)		
Before Humidity Condition:	_	_	_	MD between Earth to Monitor Plastic Enclosure surface		
P, NC,	264	60	1.63	S1 = 1, S5 = N, S7 = 1, S13 = 1		
P,NC,	264	60	1.67	S1 = 1, S5 = R, S7 = 1, S13 = 1		
P, SFC (Neutral Open)	264	60	2.57	S1 = 0, S5 = N, S7 = 1, S13 = 1		
P, SFC (Neutral Open)	264	60	2.58	S1 = 0, S5 = R, S7 = 1, S13 = 1		
P, SFC (Ground Open)	264	60	1.96	S1 = 1, S5 = N, S7 = 0, S13 = 1		

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Clause	Requirement +	Test			Result - Re	emark Verdict
D 050	(0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	ANDA	004	00	0.04	
<del></del>	(Ground Open)	(1)	264	60	2.04	S1 = 1, S5 = R, S7 = 0, S13 = 1
<del></del>	(Ground Open)		264	60	5.26	S1 = 1, S5 = N, S7 = 0, S13 = 0
P, SFC	(Ground Open)		264	60	5.15	S1 = 1, S5 = R, S7 = 0, S13 = 0
After H	lumidity Condition:		_	_	_	MD between Earth to Monitor Plastic Enclosure surface
P, NC,	À		264	60	1.88	S1 = 1, S5 = N, S7 = 1, S13 = 1
P, NC,	7		264	60	1.86	S1 = 1, S5 = R, S7 = 1, S13 = 1
P, SFC	(Neutral Open)		264	60	2.84	S1 = 0, S5 = N, S7 = 1, S13 = 1
P, SFC	(Neutral Open)		264	60	2.89	S1 = 0, S5 = R, S7 = 1, S13 = 1
P, SFC	(Ground Open)		264	60	2.32	S1 = 1, S5 = N, S7 = 0, S13 = 1
P, SFC	(Ground Open)		264	60	2.37	S1 = 1, S5 = R, S7 = 0, S13 = 1
P, SFC	(Ground Open)		264	60	5.77	S1 = 1, S5 = N, S7 = 0, S13 = 0
P, SFC	(Ground Open)		264	60	5.72	S1 = 1, S5 = R, S7 = 0, S13 = 0
Before	Humidity Condition	. 4	_	_	_	MD between Earth to Touch Panel
P, NC,			264	60	1.56	S1 = 1, S5 = N, S7 = 1, S13 = 1
P, NC,			264	60	1.57	S1 = 1, S5 = R, S7 = 1, S13 = 1
P, SFC	(Neutral Open)		264	60	2.42	S1 = 0, S5 = N, S7 = 1, S13 = 1
P, SFC	(Neutral Open)		264	60	2.46	S1 = 0, S5 = R, S7 = 1, S13 = 1
P, SFC	(Ground Open)		264	60	1.87	S1 = 1, S5 = N, S7 = 0, S13 = 1
P, SFC	(Ground Open)		264	60	1.90	S1 = 1, S5 = R, S7 = 0, S13 = 1
P, SFC	(Ground Open)		264	60	5.81	S1 = 1, S5 = N, S7 = 0, S13 = 0
P, SFC	(Ground Open)		264	60	5.84	S1 = 1, S5 = R, S7 = 0, S13 = 0
After F	lumidity Condition:		_	_	_	MD between Earth to Touch Panel
P, NC,			264	60	1.78	S1 = 1, S5 = N, S7 = 1, S13 = 1
P, NC,			264	60	1.76	S1 = 1, S5 = R, S7 = 1, S13 = 1
P, SFC	(Neutral Open)		264	60	2.68	S1 = 0, S5 = N, S7 = 1, S13 = 1
P, SFC	(Neutral Open)		264	60	2.78	S1 = 0, S5 = R, S7 = 1, S13 = 1
P, SFC	(Ground Open)		264	60	2.12	S1 = 1, S5 = N, S7 = 0, S13 = 1
P, SFC	(Ground Open)		264	60	2.14	S1 = 1, S5 = R, S7 = 0, S13 = 1
P, SFC	(Ground Open)		264	60	6.33	S1 = 1, S5 = N, S7 = 0, S13 = 0
P, SFC	(Ground Open)		264	60	6.38	S1 = 1, S5 = R, S7 = 0, S13 = 0
	red with a non-frequed	iency-	_	1	_	Maximum allowed values: 10 mA NC; 10 mA SFC

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Clause	Requirement + Test			Result - Re	emark Verdict					
Before H	lumidity Condition:	_	_	_	MD between Earth to Monitor Plastic Enclosure surface					
P, NC,	P, NC, P, NC, P, SFC (Neutral Open)		60	8.08	S1 = 1, S5 = N, S7 = 1, S13 = 1					
P, NC,			60	8.02	S1 = 1, S5 = R, S7 = 1, S13 = 1					
P, SFC (			60	7.85	S1 = 0, S5 = N, S7 = 1, S13 = 1					
P, SFC	Neutral Open)	264	60	7.88	S1 = 0, S5 = R, S7 = 1, S13 = 1					
P, SFC	(Ground Open)	264	60	7.78	S1 = 1, S5 = N, S7 = 0, S13 = 1					
P, SFC	(Ground Open)	264	60	7.89	S1 = 1, S5 = R, S7 = 0, S13 = 1					
P, SFC	(Ground Open)	264	60	19.10	S1 = 1, S5 = N, S7 = 1, S13 = 0					
P, SFC	(Ground Open)	264	60	19.14	S1 = 1, S5 = R, S7 = 1, S13 = 0					
After Hu	midity Condition:	_	_	_	MD between Earth to Monitor Plastic Enclosure surface					
P, NC,	A774	264	60	8.64	S1 = 1, S5 = N, S7 = 1, S13 = 1					
P, NC,	P, NC, P, SFC (Neutral Open) P, SFC (Neutral Open)		60	8.62	S1 = 1, S5 = R, S7 = 1, S13 = 1					
P, SFC (			60	8.16	S1 = 0, S5 = N, S7 = 1, S13 = 1					
P, SFC (			60	8.2	S1 = 0, S5 = R, S7 = 1, S13 = 1					
P, SFC	(Ground Open)	264	60	8.64	S1 = 1, S5 = N, S7 = 0, S13 = 1					
P, SFC	(Ground Open)	264	60	8.58	S1 = 1, S5 = R, S7 = 0, S13 = 1					
P, SFC	(Ground Open)	264	60	19.94	S1 = 1, S5 = N, S7 = 1, S13 = 0					
P, SFC	P, SFC (Ground Open)		60	19,92	S1 = 1, S5 = R, S7 = 1, S13 = 0					
Before H	Before Humidity Condition:		_	_	MD between Earth to Touch Panel					
P, NC,		264	60	92.5	S1 = 1, S5 = N, S7 = 1, S13 = 1					
P, NC,		264	60	92.8	S1 = 1, S5 = R, S7 = 1, S13 = 1					
P, SFC (	(Neutral Open)	264	60	7.60	S1 = 0, S5 = N, S7 = 1, S13 = 1					
P, SFC (	(Neutral Open)	264	60	7.63	S1 = 0, S5 = R, S7 = 1, S13 = 1					
P, SFC	(Ground Open)	264	60	91.6	S1 = 1, S5 = N, S7 = 0, S13 = 1					
P, SFC	(Ground Open)	264	60	91.3	S1 = 1, S5 = R, S7 = 0, S13 = 1					
P, SFC	, SFC (Ground Open)		60	69.3	S1 = 1, S5 = N, S7 = 1, S13 = 0					
P, SFC	P, SFC (Ground Open)		60	69.1	S1 = 1, S5 = R, S7 = 1, S13 = 0					
After Hu	After Humidity Condition:		- (		MD between Earth to Touch Panel					
P, NC,		264	60	94.8	S1 = 1, S5 = N, S7 = 1, S13 = 1					
P, NC,		264	60	94.8	S1 = 1, S5 = R, S7 = 1, S13 = 1					
P, SFC (	Neutral Open)	264	60	8.12	S1 = 0, S5 = N, S7 = 1, S13 = 1					







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	Clause Requirement + Test			Result - Re	emark Verdict					
•	P, SFC (Neutral Open)	264	60	8.17	S1 = 0, S5 = R, S7 = 1/S13 = 1					
•	P, SFC (Ground Open)	264	60	94.6	S1 = 1, S5 = N, S7 = 0, S13 = 1					
	P, SFC (Ground Open)	264	60	94.4	S1 = 1, S5 = R, S7 = 0, S13 = 1					
	P, SFC (Ground Open)	264	60	71.5	S1 = 1, S5 = N, S7 = 1, S13 = 0					
	P, SFC (Ground Open)	264	60	71.1	S1 = 1, S5 = R, S7 = 1, S13 = 0					
	Fig. 16 - Patient leakage current with mains on the F-type applied parts (PM)	_	_	_	Maximum allowed values: Type B: N/A Type BF AP: 5000 uA Type CF AP: 50 uA					
٠	Fig. 17 - Patient leakage current with				Maximum allowed values: Type B or BF AP: 10 uA NC; 50 uA SFC(d.c. current);					
	external voltage on Signal Input/Output part (SIP/SOP)	_	_	_	100 uA NC; 500 uA SFC (a.c.); Type CF AP: 10 uA NC; 50 uA SFC (d.c. or a.c. current)					
	Fig. 18 - Patient leakage current with external voltage on metal Accessible Part that is not Protectively Earthed	_	_	_	Maximum allowed values: Type B or BF AP: 500 uA Type CF: N/A					
K										
	Fig. 19 – Patient Auxiliary Current	_	_	_	Maximum allowed values: Type B or BF AP: 10 uA NC; 50 uA SFC (d.c. current); 100 uA NC; 500 uA SFC (a.c.); Type CF AP: 10 uA NC;50 uA SFC (d.c. or a.c. current)					
	ATIZA				A774					
	Fig. 15 and 20 – Total Patient Leakage Current with all AP of same type connected together	_	_	_	Maximum allowed values: Type B or BF AP: 50 uA NC; 100uA SFC (d.c. current); 500 uA NC; 1000 uA SFC (a.c.); Type CF AP: 50 uA NC; 100 uA SFC (d.c. or a.c. current)					
4					Maximum allowed values:					
	Fig. 17 and 20 – Total Patient Leakage Current with all AP of same type connected together with external voltage on SIP/SOP	_	_	_	Type B or BF AP: 50 uA NC; 100uA SFC (d.c. current); 500 uA NC;1000 uA SFC (a.c.); Type CF AP: 50 uA NC; 100 uA SFC (d.c. or a.c. current)					

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Clause	Requirement + Test				Remark Verdict
Fig. 16 and 20 – Total Patient Leakage Current with all AP of same type connected together with external voltage on F-type AP		_	_	_	Maximum allowed values: Type B: NA Type BF: 5000uA Type CF: 100 uA
			<i>K</i>		
			( )	\\\/ <u>\</u>	
Current with together wit	20 – Total Patient Leakage  n all AP of same type connected  th external voltage on metal  Part not Protectively Earthed	_	_	_	Maximum allowed values: Type B & BF: 1000 uA Type CF: N/A

## Supplementary information:/

Note 1: For EARTH LEAKAGE CURRENT see 8.7.3 d) and 8.7.4.5;

Note 2: For TOUCH CURRENT see 8.7.3 c) and 8.7.4.6;

Note 3: For PATIENT LEAKAGE CURRENT SEE 8.7.3.b) and 8.7.4.7

Note 4: Total PATIENT LEAKAGE CURRENT values are only relative to equipment with multiple APPLIED PARTS of the same type. See 8.7.4.7 h). The individual APPLIED PARTS complied with the PATIENT LEAKAGE CURRENT values.

Note 5: In addition to conditions indicated in the Table, tests conducted at operating temperature and after humidity preconditioning of 5.7, EQUIPMENT energized in stand-by condition and fully operating, max rated supply frequency, at 110 % of the max RATED MAINS VOLTAGE, and after relevant tests of Clause 11.6 (i.e., overflow, spillage, leakage, ingress of water and particulate matter, cleaning & disinfection, & sterilization).

ER / Earth leakage current

TC - Touch current

P - Patient leakage current

PA – Patient auxiliary current

TP - Total Patient current

PM - Patient leakage current with mains on the applied parts

MD - Measuring device

A - After humidity conditioning

B - Before humidity conditioning

1 - Switch closed or set to normal polarity

0 - Switch open or set to reversed polarity

NC - Normal condition

SFC - Single fault condition

8.8.3	8.8.3 TABLE: Dielectric strength test of solid insulating materials with safety function – MEANS OF OPERATOR PROTECTION (MOOP) / MEANS OF PATIENT PROTECTION (MOPP)							
Insulation under test (area from insulation diagram)		Inculation Type	Reference	e Voltage	A C 4004	Dielectric		
		Insulation Type (1 or 2 MOOP/MOPP)	PEAK WORKING VOLTAGE (U) V peak	PEAK WORKING VOLTAGE (U) V d.c.	A.C. test voltages in V r.m.s <sup>1</sup>	breakdown after 1 minute Yes/No <sup>2</sup>		
Adapter pr Adapter ea		1MOPP	354		1500Vac	No		
Adapter pr monitor SII		2MOPP	600		4698Vac	No		

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Clause	Requiremen	nt + Test		Result - Re	mark	Verdict			
Adapter pri monitor pla enclosure v	stic	2MOPP	600		4698Vac	No			
Adapter pri Touch Pan (5)		2MOPP	600		4698Vac	No			
Adapter Ea plastic enc foil (8)		1MOPP	600		1849Vac	No			
Adapter Ea Touch Pan (8)		1MOPP	600		1849Vac	No			
Monitor: SI plastic enclosit (7)		1MOPP	354		1500Vac	No			
Monitor: SI Touch Pan (7)		1MOPP	354		1500Vac	No			

### **Supplementary information:**

Test reference voltage 600 V determined by power adapter type: HITRON ELECTRONICS CORP/HEMG50-S120420-7

Alternatively, per the Table (i.e., \_\_dc), a d.c. test voltage equal to the peak value of the a.c. test voltage used.

A) Immediately after humidity treatment of 5.7, ME EQUIPMENT de-energized, B) after required sterilization PROCEDURE, ME EQUIPMENT de-energized, C) after reaching steady state operating temperature as during heating test of 11.1.1, and D) after relevant tests of 11.6 (i.e., overflow, spillage, leakage, ingress of water, cleaning, disinfection, and sterilization).

8.8.4.1	TABLE: Resistance to heat - Ball pressure test of thermoplastic parts				
	Allowed impression diameter (mm)	d impression diameter (mm) ≤ 2 mm		_	
	Force (N):	.: 20		_	
Part/material			Test temperature (°C)		ression eter (mm)
Plastic Enclosure, Sabic Innovative Plastics US L L C type C2800(GG)			75		0.8
Suppleme	entary information:				

Ī	8.8.4.1	RM RESULTS TABLE: Mechanical strength and resistance to heat		
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
	4.2	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass

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	IEC 60601-1						
Clause	Requirement + Test	Result - Remark	Verdict				
8.8.4.1	RM RESULTS TABLE: Mech	RM RESULTS TABLE: Mechanical strength and resistance to heat					
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph	Result - Remarks	Verdict				
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Analysis: F-01, H- 01, C-17		Pass				
4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Evaluation Before Measures: F-01, H-01, 0		Pass				
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Evaluation Before Measures: F-01, H-01, 0 17 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Graph Before Measures		Pass				
6.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Release Protocols of Measures: RC-004	The risk control measures selected were recorded in the risk management file.	Pass				
6.3	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section Release Protocols of Measures: RC-004</li> </ul>	The effectiveness of the risk control measures had been verified and the results of the verification were recorded in the risk management file.	Pass				
6.4	<ul> <li>◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section New evaluation after measures: F-01, H-01, 0 17</li> <li>◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Graph After Measures</li> <li>◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section</li> </ul>	evaluated using the criteria that defined in the risk management plan	Pass				
6.5	Overview of the Results of the Risk N/A	No reduction of risk through Risk/benefit analysis	N/A				

8.9.2	TABLE: Short circuiting of each single one of the CREEPAGE DISTANCES and AIR	N/A
	CLEARANCES for insulation in the MAINS PART between parts of opposite	

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Clause	Requirement + Test	<u> </u>	Result - Remark	Verdict		
	polarity in lieu of complying with the required measurements in 8.9.4					
	areas of circuits short- ed and test conditions	Test in lieu of CREEPAGE DISTANCE OF AIR CLEARANCE <sup>1</sup>	HAZARDOUS SITUATION observed (i.e., fire hazard, shock hazard, explosion, discharge of parts, etc.)? Yes/No	Remarks		
			A774			
20						



**CD** - CREEPAGE DISTANCE

















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Clause	Requirement + Test	Result - Remark	Verdict		

			( ) (	<u> ''///</u>
8.9.3.2	Table: Thermal cycling tests on a solid insulation between conduction	one sample of insulating comp tive parts	oound forming	N/A
Test Sequence No.	Each test duration and temperature	Dielectric test voltage (V = Test voltage in 8.8.3 times 1.6)	Dielectric str after hu preconditionir except for 4 Breakdown	midity ng per cl. 5.7 l8 h only,
	68 h at T1 ± 2 °C = °C 1			
1	1 h at 25 °C ± 2 °C			
'	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
	68 h at T1 ± 2 °C =°C 1			_
2	1 h at 25 °C ± 2 °C		A T	177
_	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			¥-
	68 h at T1 ± 2 °C = °C 1			
3	1 h at 25 °C ± 2 °C			
	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			
	68 h at T1 ± 2 °C = °C 1			
4	1 h at 25 °C ± 2 °C			
	2 h at 0 °C ± 2 °C			
	1 or more h at 25 °C ± 2 °C			

## Supplementary information:

<sup>1</sup> T1 = 10 °C above the maximum temperature of relevant part determined per 11.1.1, or 85 °C, the higher of the two. 10 °C not added to T1 when temperature measured by an embedded thermocouple. Used gradual transition from one temperature to another.

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Clause	Requirement + Test	Result - Remark	Verdict

	8.9.3.4	Table: Thermal cycling tests on one	e sample of cemented joint	(see 8.9.3.3) N/A
	Test Sequence No.	Each test duration and temperature	Dielectric test voltage (V = Test voltage in 8.8.3 times 1.6)	Dielectric strength test after humidity preconditioning per cl. 5.7 except for 48 h only, Breakdown: Yes/No
	17/4	68 h at T1 ± 2 °C = °C 1	(17/4	
	77	1 h at 25 °C ± 2 °C		
	'	2 h at 0 °C ± 2 °C		
		1 or more h at 25 °C ± 2 °C		
		68 h at T1 ± 2 °C = °C 1		
	2	1 h at 25 °C ± 2 °C		
	-	2 h at 0 °C ± 2 °C		
		1 or more h at 25 °C ± 2 °C		
		68 h at T1 ± 2 °C = °C 1		
	3	1 h at 25 °C ± 2 °C		
		2 h at 0 °C ± 2 °C		
K		1 or more h at 25 °C ± 2 °C		
	4	68 h at T1 ± 2 °C =°C 1		
\		1 h at 25 °C ± 2 °C		
	-	2 h at 0 °C ± 2 °C		
		1 or more h at 25 °C ± 2 °C		
K				

## Supplementary information:

T1 = 10 °C above the maximum temperature of relevant part determined per 11.1.1, or 85 °C, the higher of the two. 10 °C not added to T1 when temperature measured by an embedded thermocouple. Used gradual transition from one temperature to another.

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Clause	Requirement + Test	Result - Remark	Verdict	

8.10 TAB	LE: List of critical	components			Pass
Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity <sup>1</sup>
Label	Car Tong Co	CT-M002	60°C	UL969	UL
Power Adapter	Hitron Electronics Corp	HEMG50- S120420-7	I/P: 100-240 Vac, 60/50 Hz, 1.2-0.63 A; O/P/ 12 Vdc, 4.2A	ANSI/AAMI ES60601-1: 2005, CSA C22.2 No. 60601-1: 2008, IEC 60601-1: 2005	UL, CSA, TUV
Plastic Enclosure	Sabic Innovative Plastics US L L C	C2800(GG)	Min. V-0, 65°C, 1.5mm thickness minimum, see Attachment- Technical Documentation for details.	UL 94	UL
Inner metal cover (LCD Display)			Overall see Attachment- Technical Documentation for details.	<b></b>	
Internal Rear Bracket (Main board)			Overall see Attachment- Technical Documentation for details.		
VESA Mount	-		8 screws provided, M4 x 0.7 x 20mm		
Printed Wiring Board	Various	Various	Minimum V-1, 105°C	UL 796	UL
LCD Panel	AU Optronics Corp.	M185XTN01	18.5 inch, TFT LCD – with LED backlight		
Internal Plastic Part	Various	Various	Minimum V-2	UL 94	UL
Secondary Internal Wiring (low Voltage)	Various	Various	60°C minimum, 30 V minimum. FEP, PTFE, PVC, TFE, neoprene, polyimide, or	UL 758	UL

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Clause	Requirement +	Test	Resul	t - Remark	Verdict
			marked VW-1.		
Power supply core (Optional)	d		Listed, Hospital Grade, maximum 4.5 m (14.76 ft.) long, rated 105 °C, Type SJT flexible cord, No. 18 AWG min. / 3C, One end terminates with NEMA 5- 15P or NEMA 6-15P, grounding type, the other end with an appliance coupler.	<b>&gt;</b>	
Speaker (2 set) (optional)	Various	Various	Two provided, 4ohm, 2.5W.		

Supplementary information:
1) An asterisk indicates a mark which assures the agreed level of surveillance. See Licenses and Certificates of Conformity for verification.

8.10.1	RM RESULTS TABLE: Fixing o	RM RESULTS TABLE: Fixing of components		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass	
4.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 01, C-11	The manufacturer had compiled a list of known or foreseeable hazards associated with the forces to which the device would be subject to unwanted movement of components used has been identified.	Pass	
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 11	The estimates of the risk(s) were recorded in the risk management file.	Pass	

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		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
	A717A		174
8.10.1	RM RESULTS TABLE: Fi	xing of components	Pass
Clause of ISO 14971			Verdict
5	Version: 1.00 , Secti Risk Evaluation Bef Measures: F-01, H-0 11 ◆ ONYX-BE381DT_RM	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 11 ONYX-BE381DT_RMF_ Version: 1.00 , Section -	
6.2	Measures  ◆ ONYX-BE381DT_RM  Version: 1.00 , Section  Release Protocols of Measures: RC-019	ion - recorded in the risk management file.	Pass
6.3	ONYX-BE381DT_RM     Version: 1.00 , Section     Release Protocols of Measures: RC-019	ion - measures had been verified and the results	Pass
6.4	◆ ONYX-BE381DT_RM Version: 1.00 , Secti New evaluation afte measures: F-01, H-0	ion - control measure(s) are applied and evaluated using the criteria that defined in	Pass
	<ul> <li>ONYX-BE381DT_RN Version: 1.00 , Secti Risk Graph After Measures</li> </ul>	_ \ \ \ \ \ \ \ / / /	
	ONYX-BE381DT_RN     Version: 1.00 , Secti     Overview of the Res     of the Risk	ion -	
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A
			AP/
8.10.2	RM RESULTS TABLE: Fi	xing of wiring	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragra	Result - Remarks	Verdict
4.3	ONYX-BE381DT_RM     Version: 1.00 , Section: E.01  Pick Analysis: E.01	ion - known or foreseeable hazards associated	Pass

Risk Analysis: F-01, Hwith the forces to which the device would be subject to unwanted movement of wiring has been identified. 01, C-18

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		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
8.10.2	RM RESULTS TABLE: Fixing	g of wiring	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph	Result - Remarks	Verdict
4.4	◆ ONYX-BE381DT_RMF Version: 1.00 , Section Risk Evaluation Before Measures: F-01, H-01, 18	the risk management file.	Pass
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Evaluation Before Measures: F-01, H-01, 18 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section	recorded in the risk management file.	Pass
	Risk Graph Before Measures		
6.2	◆ ONYX-BE381DT_RMF Version: 1.00 Section Release Protocols of Measures: RC-026		Pass
6.3	◆ ONYX-BE381DT_RMF Version: 1.00 , Section Release Protocols of Measures: RC-026		Pass
6,4	◆ ONYX-BE381DT_RMF Version: 1.00 , Section New evaluation after measures: F-01, H-01, C-18		Pass
	◆ ONYX-BE381DT_RMF Version: 1.00 , Section Risk Graph After Measures		
	<ul> <li>ONYX-BE381DT_RMF Version: 1.00 , Section Overview of the Resul of the Risk</li> </ul>	-	
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A

A	8.10.5	RM RESULTS TABLE: Mechani	RM RESULTS TABLE: Mechanical protection of wiring			
		Document Ref. in RMF	Result - Remarks	Verdict		
	ISO 14971	(Document No. & paragraph)				

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		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
8.10.5	RM RESULTS TABLE: Meci	nanical protection of wiring	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph	Result - Remarks	Verdict
4.3	◆ ONYX-BE381DT_RMF Version: 1.00 , Section Risk Analysis: F-01, H 01, C-21, C-22	- known or foreseeable hazards associated	Pass
4.4	◆ ONYX-BE381DT_RMF. Version: 1.00 , Section Risk Evaluation Before Measures: F-01, H-01, 21, C-22	the risk management file.	Pass
5	◆ ONYX-BE381DT_RMF Version: 1.00 , Section Risk Evaluation Before Measures: F-01, H-01, 21, C-22	recorded in the risk management file.	Pass
	<ul> <li>ONYX-BE381DT_RMF Version: 1.00 , Section Risk Graph Before Measures</li> </ul>		
6.2	◆ ONYX-BE381DT_RMF Version: 1.00 , Section Release Protocols of Measures: RC-008, RC 026	- recorded in the risk management file.	Pass
6.3	◆ ONYX-BE381DT_RMF Version: 1.00 , Section Release Protocols of Measures: RC-008, RC 026	measures had been verified and the results of the verification were recorded in the risk	Pass
6.4	◆ ONYX-BE381DT_RMF Version: 1.00 , Section New evaluation after measures: F-01, H-01, 21, C-22	- control measure(s) are applied and evaluated using the criteria that defined in	Pass
	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section Risk Graph After Measures</li> </ul>		
	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section Overview of the Resul of the Risk</li> </ul>	- \	
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A







			IEC (	60601-1				
Clause	Requirement +	Test			Result - Re	mark		Verdict
		ATE 4					(1)	74
3.11.3.5	TABLE: Cord a	1 7 1					(1)	N/A
Cord under	· test	Mass of equipment (kg		Pull (N)	Torque N	lm)	Rem	arks
Supplemen	tary information	:						
W/ <u>/</u>								
3.11.3.6	TABLE: Cord g	uard			SP			N/A
Cord under	test	Test ma	ass	Measure	d curvature		Remark	s
Supplemen	tary information							
		ATIVA					A	<del>17/A</del>
3.11.5	RM RESULTS	TABLE: Mains f	uses ar	d over-cu	rrent release	S		N/A
Clause of SO 14971	Document Ref		Resu	It - Remar	ks			Verdict
4.3								
4.4								
5				$\overline{}$				
6.2//								
6.3					SP			
6.4								
6.5								
9.2.1	RM RESULTS	TABLE: HAZAR	DS ass	ociated wi	th moving pa	arts - Gene	ral	N/A
Clause of	Document Ref			It - Remar				Verdict
4.2		(1)						1/17
4.3								
1.4								
5								
5.2								
6.3								
6.4				- ()	NP4			
6.5								
.2.2.2	TABLE: Measu	rement of gap "	a" acco	rding to T	able 20 (ISO	13852: 199	6)	N/A
Part of		wable adult		red adult		children	-	ed childre

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	IEC	60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
	() 717.()	·	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\

	gap <sup>1</sup> , mm	gap, mm	gap <sup>1</sup> , mm	gap, mm	
Body	> 500		> 500	V	
Head	> 300 or < 120		> 300 or < 60		
Leg	> 180		> 180		
Foot	> 120 or < 35		> 120 or < 25		
Toes	> 50		> 50		
Arm A	> 120		> 120		
Hand, wrist, fist	> 100		> 100		
Finger	> 25 or < 8		> 25 or < 4		

**Supplementary information:** <sup>1</sup> In general, gaps for adults used, except when the device is specifically designed for use with children, values for children applied.

9.2.2.4.3	RM RESULTS TABLE: Movable guards		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			<b>\</b>
4.3			
4.4			
5			
6.2			
6.3		ATTA	
6.4			
6.5			

9.2.2.4.4	RM RESULTS TABLE: Protective measures			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph) Result - Remarks			
4.2		\(\frac{1}{2}\)		
4.3			WA	
4.4			D	
5				
6.2				
6.3				
6.4				
6.5				

9.2.2.5 c)	RM RESULTS TABLE: Continue	ous activation	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			

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		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
	ATTA		ATTA
9.2.2.5 c)	RM RESULTS TABLE: Continu	ous activation	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6.5			
9.2.2.6	RM RESULTS TABLE: Speed of		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6.5/			
0000	DM DECULTO TABLE. O		N/A
9.2.3.2	RM RESULTS TABLE: Over tra	- 1	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6.5			
9.2.4	RM RESULTS TABLE: Emerge	ncy stopping devices	N/A
Clause of	Document Ref. in RMF	Result - Remarks	Verdict
ISO 14971	(Document No. & paragraph)		
	(Document No. & paragraph)		





		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
9.2.4	RM RESULTS TABLE: Emerge	ncy stopping devices	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.4			
5			
6.2			
6.3			
6.4			
6.5			
6.6			

9.2.5	RM RESULTS TABLE: Release of patient		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2		( ) \	17/4
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6,5			

9.3	RM RESULTS TABLE: Hazards associated with surfaces, corners and edges		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-02, H- 01, C-03	The manufacturer had compiled a list of known or foreseeable hazards associated with the enclosure shape have been identified.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Evaluation of risk (before measures: F-02, H-01, C-03	The estimates of the risk(s) were recorded in the risk management file.	Pass





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			IEC 60601-1		
Clause	Requirement +	Test	Resu	lt - Remark	Verdict
	1	(17/4		()	774
9.3	RM RESULTS	TABLE: Hazards	associated with surfac	es, corners and edges	Pass
Clause of ISO 14971					Verdict
5 ONYX-BE381DT Version: 1.00 , S Risk Evaluation		1.00 , Section -	The results of this risk evaluation were recorded in the risk management file.		Pass
	Version	E381DT_RMF_ : 1.00 , Section - aph Before es			
6.2	Version: Release	E381DT_RMF_ 1.00 , Section - Protocols of es: RC-018	The risk control meas recorded in the risk m	Pass	
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-018		The effectiveness of the measures had be verification were management file.	Pass	
6.4	Version: New eva	E381DT_RMF_ : 1.00 , Section - iluation after es: F-02, H-01, C-	All residual risk that re control measure(s) are evaluated using the cr the risk management	e applied and riteria that defined in	Pass
	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures</li> </ul>			7	
	Version	E381DT_RMF_ : 1.00 , Section - w of the Results isk			
6.5	N/A		No reduction of risk thanalysis	nrough Risk/benefit	N/A
					V/
9.4.2.1 T	ABLE: Instabili	tv—overbalance	in transport position		N/A

9.4.2.1	9.4.2.1 TABLE: Instability—overbalance in transport position				
ME EQUIPMENT preparation		Test Condition (transport position)	Remarks		
1772		ATITÀ			
Supplem	entary information	:			

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			IEC 60601-1			
Clause	Requirement -	+ Test	Resu	ılt - Remark		Verdict
		(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
9.4.2.2	TABLE: Instabil	ity—overbalance e	excluding transport po	osition	10,	//N/A
	EQUIPMENT eparation	position) Test ei	n (excluding transport ther 5 ° incline and ver rking or 10 ° incline)	rify	Remarks	
Suppleme	entary information	on:	ATI	$\Delta$		
11/17				7		
9.4.2.3	TABLE: Instabil	ity—overbalance f	rom horizontal and ve	ertical forces		N/A
	EQUIPMENT eparation	Test Condition	(force used, direction fequipment, location force	of	Remarks	
		(17)			Án	72
						1/7
Supplom	entary information	n.			1	
зарріоні	That y information	<b></b>				
1111	TABLE: Cooters	s and wheels – For	aa far propulaian			N/A
	EQUIPMENT		orce location and heigh	vht\	Remarks	IN/A
	eparation	rest condition (i	orce location and neig	Jiii)	Remains	
	·					
			A.			
Sunnlamo	entary information	nr.				
заррісті	mary mormatic	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
9.4.2.4.3	TABLE: Castors	and wheels - Mov	vement over a thresho	old		N/A
ME F	QUIPMENT	Test Condition	n (speed of movement	)	Remarks	
	eparation			,		
					7	
	nton: info					
ouppieme	entary information	)(1). 				
			. ATT.	$\triangle$	<del></del>	
77.4			nt over a threehold 🗸 /	_		
9.4.2.4.3	RM RESULT	S TABLE: Moveme	in over a unesnoid			N/A
Clause of	of Document R	ef. in RMF	Result - Remarks	<u>/                                    </u>		
Clause o	of Document R		1 (1 //	/ /		
9.4.2.4,3 Clause of ISO 1497 4.2 4.3	of Document R	ef. in RMF	1 (1 //	//		N/A Verdict

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			IEC 60601-1		
Clause	Requirement +	Test		Remark	Verdict
		ATTA	I		174
9.4.2.4.3	RM RESULTS	TABLE: Moveme	ent over a threshold		N/A
Clause of ISO 14971	Document Re	f. in RMF o. & paragraph)	Result - Remarks		Verdict
4.4					
5					
6.2					
6.3			ATPA		
6.4					
0.0	<u> </u>		" The said of the said		
	ABLE: Instabilit		d lateral movement (includ	ding sliding) in	N/A
ME EQUIPMENT Preparation  Test Condition (transport position, working load, locking device(s), caster position)			Remark	rks	
		W'77	podition	(/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Supplemen	tary informatior	ı:			
	ABLE: Instabilit		d lateral movement (includ	ding sliding)	N/A
	UIPMENT paration	device(s), cas	n (working load, locking ter position, force, force n, force direction)	Remark	S
				<i>A</i>	
Supplemen	tary information				
9.4.4 T	ABLE: Grips an	d other handling	devices		N/A
Clause and	Name of Test	Te	est Condition	Remark	S

9.5.1 **RM RESULTS TABLE: Protective means** N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	ΛηΓΛ	7 / \	17.()
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6.5			
9.6.1	RM RESULTS TABLE: Acoustic	c energy - General	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
1			

9.6.1	RM RESULTS TABLE: Acoustic energy - General				
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
4.2		R			
4.3		( )			
4.4					
5			·		
6.2					
6.3					
6.4					
6.5					

9.6.2.2	RM RESULTS TABLE: Infrasound and ultrasound energy				
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
4.2					
4.3					
4.4					
5	(7774		17/4		
6.2			(1)		
6.3					
6.4					
6.5					

$\langle$	9.7.2	RM RESULTS TABLE: Pneuma	RM RESULTS TABLE: Pneumatic and hydraulic parts			
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
Ī	4.3					
	4.4					
	5					

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		IEC 60601-1		
Clause	Requirement + Test		Result - Remark	Verdict
	() () () () () () () () () () () () () (			$\Delta \nabla \nabla \Delta$
9.7.2	RM RESULTS TABLE: Pneuma	RM RESULTS TABLE: Pneumatic and hydraulic parts		N/A
Clause of ISO 14971			Verdict	
6.2				
6.3				
6.4				
6.5				
9.7.4	RM RESULTS TABLE: Pressur	re rating of ME eq	uipment parts	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	ks	Verdict
4.3				
4.4				
5				
6.2				
6.3				
6.4				
6.5				

9.7.5	TAI	BLE: Pressure ve	ssels			N/A
Hydrauli Pneumatio Suitable M and Tes Pressur	c or edia st	Vessel Burst	Permanent Deformation	Leaks	Vessel fluid substance	Remarks
upplemen	tary lı	nformation:	V7			

	9.7.6	RM RESULTS TABLE: Pressure-control device					
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict			
K	4.3						
	4.4//						
/	5						
	6.2		,				
	6.3						
	6.4						

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Clause	Requirement + Test Result - Remark			Verdict		
	ATRA	•	A	17/4		
9.7.6	RM RESULTS TABLE: Pressure-control device			N/A		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks		Verdict		
6.5						

9.7.7	RM RESULTS TABLE: Pressur	re-relief device	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6.5			

9.8.1	RM RESULTS TABLE: Hazards	associated with support systems - General	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data</li> </ul>	The RMF mention the "Intended use/intended purpose".	Pass
4.3	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-02, H- 01, C-02</li> </ul>	The manufacturer had compiled a list of known or foreseeable hazards associated with the support systems have been considered.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-02, H-01, C- 02	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-02, H-01, C- 02 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before	The results of this risk evaluation were recorded in the risk management file.	Pass
6.2	Measures  ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-010	The risk control measures selected were recorded in the risk management file.	Pass

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		IEC 60601-1		
Clause	Result - Remark			
9.8.1	9.8.1 RM RESULTS TABLE: Hazards associated with support systems - General			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)			
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-010	The effectiveness of the risk control measures had be verified and the results of the verification were recorded in the risk management file.	Pass	
6.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-02, H-01, C- 02	All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in the risk management plan	Pass	
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures			
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk			
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A	

9.8.2	RM RESULTS TABLE: Tensile	safety factor	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-02, H- 01, C-02</li> </ul>	The manufacturer had compiled a list of known or foreseeable hazards associated with the support systems have been considered.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-02, H-01, C- 02	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-02, H-01, C- 02	The results of this risk evaluation were recorded in the risk management file.	Pass
	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures</li> </ul>		
6.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-010	The risk control measures selected were recorded in the risk management file.	Pass

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		IEC 60601-1	
Clause	Requirement + Test	Result - Remark	Verdict
9.8.2	RM RESULTS TABLE: Tensile	safety factor	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)		
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-010	YX-BE381DT_RMF_ The effectiveness of the risk control measures had be verified and the results of the verification were recorded in the risk	
ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-02, H-01, C- 02		All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in the risk management plan	Pass
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk		
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A

9.8.3.1	RM RESULTS TABLE: Strength of patient or operator support or suspension systems - General		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2		R	
6.3			
6.4			
6.5			<del></del>

9.8.3.2 TABLE: PATIENT support/suspension system - Static forces					N/A	
ME EQUIPME or are	-	Position	Load	Area	Remar	ks
X11\\(\righta\)				V11/7		
37						





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Clause	Requirement + Test	Result - Remark	Verdict		
	$\Delta \nabla \nabla \Delta$		ADDA		
9.8.3.2	TABLE: PATIENT support/suspension	n system - Static forces	N/A		
Supplem	entary Information:				

	9.8.3.2a, b	RM RESULTS TABLE: Static fo	rces due to loading from persons	N/A
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
$\overline{\ }$	4.3		ATTA	
	4.4			
,	5			
	6.2			
	6.3			
	6.4			
	6.5			

9.8.3.3	TABLE person		ension System – D	ynamic forces d	ue to loading from N/A
ME EQUIP		Position	Safe Working Load	Area	Remarks
774				M774	
70				1	
Supplement	ary Infor	mation:			1

9.8.4.1	RM RESULTS TABLE: Systems with mechanical protective devices - General			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)  Result - Remarks		Verdict	
4.3				
4.4				
5				
6.2				
6.3				
6.4				
6.5				

9.8.4.3	RM RESULTS TABLE: Mechanical protective device for single activation		
	Document Ref. in RMF (Document No. & paragraph)  Result - Remarks		Verdict
4.3			

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Clause	Requirement + Test	Result - Remark	Verdict			
	ATRA	<u> </u>	17/4			
9.8.4.3	RM RESULTS TABLE: Mechan	ical protective device for single activation	\\/\ <b>N</b> /A			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict			
4.4						
5						
6.2						
6.3						
6.4						
6.5						

9.8.5	RM RESULTS TABLE: Systems	s without mechanical protective devices	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis	The manufacturer had compiled a list of known or foreseeable hazards associated with the support systems have been considered.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-02, H-01, C- 02	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-02, H-01, C- 02	The results of this risk evaluation were recorded in the risk management file.	Pass
	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures		
6.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-010	The risk control measures selected were recorded in the risk management file.	Pass
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-010	The effectiveness of the risk control measures had be verified and the results of the verification were recorded in the risk management file.	Pass

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			IEC 60601-1		
Clause	Requi	rement + Test		Result - Remark	Verdict
9.8.5	RM F	RESULTS TABLE: Systems	s without mechani	ical protective devices	Pass
Clause of ISO 14971		ıment Ref. in RMF ument No. & paragraph)	Result - Remarks		Verdict
6.4	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-02, H-01, C- 02 ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures	All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in the risk management plan		Pass
	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk			
6.5	N/A		No reduction of analysis	risk through Risk/benefit	N/A

Maximum	allowable radiation pA/kg ( µSv/h) (mR/h)	36 (5 μSv/h) (0.5 mR/h)	
	Surface area under test Surface no./ Description <sup>1</sup>	Measured Radiation, pA/kg (μSv/h) (mR/h)	Remarks
2/ /			
3/ / 4/ /			
<del>4</del> / / 5/ /			
6/ /			
7/ /	ATITA		A77A
8/ /			
9/ /			¥
10/ /			

10.1.2	RM RESULTS TABLE: ME equipment intended to produce diagnostic or	N/A
10.1.2	THE REGULT OF TABLE. WE equipment interlace to produce diagnostic of	14/74
	therapeutic X-radiation	
	the apeutic A-radiation	

means of access, or is instructed to enter regardless of whether or not a TOOL is needed to gain access

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Clause	Requirement + Test	Result - Remark	Verdict
	. Απρα	7 /	17.4
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6.5			
10.2	RM RESULTS TABLE: Alpha, b	eta, gamma, neutron & other particle radiation	N/A
Clause of	Document Ref. in RMF	Result - Remarks	Verdict

10.2	RM RESULTS TABLE: Alpha, beta, gamma, neutron & other particle radiation		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	(17/4	( ) 7	17/4
4.3			777
4.4			V
5			
6.2			
6.3			
6.4			
6.57		NALY A	

10.3	RM RESULTS TABLE: Microwa	RM RESULTS TABLE: Microwave radiation		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2				
4.3				
4.4				
5				
6.2				
6.3				
6.4				
6.5				

10.5	RM RESULTS TABLE: Other vi	N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			

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		IEC 606	01-1			
Clause	Requirement + Test		Res	sult - Remark		Verdict
	ATPA				AT	174.
10.5	RM RESULTS TABLE: Other	/isible elec	tromagnetic	radiation		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result -	Remarks			Verdict
5						
6.2						
6.3						
6.4			ATI	7.7		
6.5			((////			
			V			
10.6	RM RESULTS TABLE: RISK emitted by lasers and LEDS	associated	d with infra	red radiation	other than	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result -	Remarks			Verdict
4.2						
4.3	(\774				( ) 7	17/4
4.4						7/
5						
6.2						
6.3						
6.4						
6.5						
$\Lambda \Gamma \Lambda$			- A71	7, 🕰		
10.7	RM RESULTS TABLE: RISK a emitted by lasers and LEDS	ssociated	with ultrav	iolet radiatio	n other than	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result -	Remarks			Verdict
4.2						
4.3						
4.4						
5						W/ <del></del>
6.2						
6.3						
6.4						
6.5						
11.1.1	TABLE: Excessive temperature	es in ME EQI	JIPMENT			Pass
<del>1117 A -</del>		ONYX-	AVII	<u> </u>		
Maria No.		BE381DT- xx-xxxx	7	7 -		
Test ambie	nt (°C):	See below				
	• •		l	1	I.	





			IEC 60	601-1				
Clause	Requireme	ent + Test		Re	esult - Rer	nark		Verdict
Test sup	ply voltage/fr	equency (V/Hz) <sup>4</sup> :	A. 90/60 B. 264/60		-		(	
Model No	Thermo- couple No.	Thermocouple	location <sup>3</sup>	Max allo temperatu Table 22, or RM file	ure <sup>1</sup> from 23 or 24 for AP <sup>5</sup>	mea tempe	lax sured erature <sup>2</sup> , o <sup>2</sup> C)	Remarks
	See below	See below		See b	elow	A.	B.	
	1.	T1 coil (power supp	oly)	12	0	65.3	63.5	
	2.	T1 core (power sup	pply)	12	0	62.9	61.0	
	3.	Enclosure outside i T1(power supply)	near	60	)	54.9	51.1	(10's ≤t<1min)
	4.	Switch body		48	3	44.8	42.7	(1min ≤t<10min)
	5.	Panel body		48	3	45.2	42.8	(1min ≤t<10min)
	6.	L25 coil		10	5	65.8	62.6	
	7.	C57 body		10	5	58.0	55.0	
	8.	L56 coil		10	5	59.7	56.7	
	9.	C115 body		10	5	56.8	54.2	
	10.	PWB under U8		(10	5//7	64.4	61.5	
	11.	C77 body		10	5	58.7	55.9	
	12.	PWB under U5		10	5	58.1	55.2	
	13.	C26 body			-	53.7	50.8	
	14.	C1 body (Display b	oard)	10	0	56.2	53.4	
	15.	L1 coil (Display boa	ard)	10	5	58.0	55.2	
	16.	C3 body (Display b	oard)	10	5	57.5	54.8	
	17.	Plastic enclosure ir main board	nside near	65	5	49.6	47.0	
	18.	Plastic enclosure o of main board	utside near	48	3	47.5	45.5	(1min ≤t<10min)
	19.	Metal part outside i	near USB	48	3	47.0	45.5	(1min ≤t<10min)
	20	Test corner near re enclosure	ear	90		40.7	40.1	
	21.	Ambient			•	40.0 (27.7)	40.0 (27.5)	

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Clause	Requirement + Test	Result - Remark	Verdict

## Supplementary information:

Unit test position: Let the I/O section be always in the bottom side.

Table 23	
Enclosure outside near T1 (power supply)	(10's ≤t<1min)
Table 24	
Switch body	(1min ≤t<10min)
Panel body	(1min ≤t<10min)
Plastic enclosure outside near of main board	(1min ≤t<10min)
Metal part outside near USB port	(1min ≤t<10min)

Maximum allowable temperature on surfaces of test corner is 90 °C

- ME EQUIPMENT with heating elements 110 % of the maximum RATED voltage;
- Motor operated ME EQUIPMENT least favourable voltage between 90 % of the minimum RATED and 110 % of the maximum RATED voltage. ME EQUIPMENT operated under normal load and normal DUTY CYCLE.
- Combined heating and motor operated and other ME EQUIPMENT tested both at 110 % of the maximum RATED voltage and at 90 % of the minimum RATED voltage.

<sup>&</sup>lt;sup>5</sup> **APPLIED PARTS** intended to supply heat to a **PATIENT - S**ee RISK MANAGEMENT FILE containing temperatures and clinical effects. Also, see instructions for use.

11.1.1	RM RESULTS TABLE: Maximu (Table 23 or 24)	m temperature during normal use	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass
4.3	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 02, C-01</li> </ul>	The manufacturer had compiled a list of known or foreseeable hazards associated with the heat generated by the device have been identified.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 01	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 01	The results of this risk evaluation were recorded in the risk management file.	Pass
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures		

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<sup>&</sup>lt;sup>2</sup> Max temperature determined in accordance with 11.1.3e)

<sup>&</sup>lt;sup>3</sup>When thermocouples used to determine temperature of windings, limits of Table 22 reduced by 10 °C.

<sup>&</sup>lt;sup>4</sup> Supply voltage:



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Clause	Requirement + Test	Result - Remark	Verdict
11.1.1	RM RESULTS TABLE: Maximum (Table 23 or 24)	m temperature during normal use	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
6.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-032	The risk control measures selected were recorded in the risk management file.	Pass
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-032	The effectiveness of the risk control measures had be verified and the results of the verification were recorded in the risk management file.	Pass
6.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-01, H-02, C- 01 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section -	All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in the risk management plan	Pass
	Risk Graph After Measures  ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk		
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A

11.1.2.1	RM RESULTS TABLE: Applied	parts intended to supply heat to patient	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			W//
5			
6.2			
6.3			
6.4			
6.5			

11.1.2.2	RM RESULTS TABLE: Applied parts not intended to supply heat to patient		Pass
Clause of	Document Ref. in RMF	Result - Remarks	Verdict
ISO 14971	(Document No. & paragraph)		

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Clause	Requirement + Test	Result - Remark	Verdict
11.1.2.2	RM RESULTS TABLE: Applied	d parts not intended to supply heat to patient	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 02, C-01	The manufacturer had compiled a list of known or foreseeable hazards associated with the heat generated by the device have been identified.	Pass
4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 01	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 01	The results of this risk evaluation were recorded in the risk management file.	Pass
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures		
6.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-032	The risk control measures selected were recorded in the risk management file.	Pass
6.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-032	The effectiveness of the risk control measures had be verified and the results of the verification were recorded in the risk management file.	Pass
6.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-01, H-02, C- 01	All residual risk that remains after the risk control measure(s) are applied and evaluated using the criteria that defined in the risk management plan	Pass
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures		
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk		
6.5	N/A	No reduction of risk through Risk/benefit analysis	N/A





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Clause	Requirement + To	est			Result - R	emark		Verdict
11.1.3	TABLE: Tempera	ture of wir	ndings by c	hange-of-r	esistance n	nethod		N/A
Tempera	ture T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulatio n class
				$\leftarrow$				
70					20			
Supplem	entary information:		•	•	•	•	•	

11.1.3	RM RESULTS TABLE: Measure	ements	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data</li> </ul>	The RMF mention the "Intended use/intended purpose"	Pass
4.3	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 02, C-01</li> </ul>	The manufacturer had compiled a list of known or foreseeable hazards associated with the heat generated by the device have been identified.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 01	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 01</li> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before</li> </ul>	The results of this risk evaluation were recorded in the risk management file.	Pass
6.2	Measures  ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-032	The risk control measures selected were recorded in the risk management file.	Pass
6.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-032	The effectiveness of the risk control measures had be verified and the results of the verification were recorded in the risk management file.	Pass

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Clause	Requi	rement + Test		Result - Remark	Verdict
				/ \ \	$17\Delta$
11.1.3	RM F	RESULTS TABLE: Measure	ements		Pass
Clause of ISO 14971		ument Ref. in RMF ument No. & paragraph)	Result - Remarks	S	Verdict
6.4	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-01, H-02, C- 01 ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures	control measure	that remains after the risk (s) are applied and the criteria that defined in ment plan	Pass
	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk			
6.5	N/A		No reduction of analysis	risk through Risk/benefit	N/A

11.2.2	2.1	RM RESULTS TABLE: Risk of	fire in an oxygen rich environment	N/A
Claus ISO 1		Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2				
4.3	$\rangle$			
4.4//	7			
5	/			
6.2				
6.3				
6.4				
6.5				

11.2.2.1	TABLE: Alternative method to 11.2.2.1 a) 5) to determine existence of a ignition source	n N/A
Areas wh	ere sparking might cause ignition:	Remarks
1.		
2.		
3.		
5.		
6.		

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Clause	Requirement + Test	Result - Remark	Verdict
		<u>.                                      </u>	$\Lambda \Box \Box \Lambda$

$\Delta \nabla \nabla \Delta$		() 717.4
Materials of the parts between which spa Designation, Manufacturer):	arks could occur (Composition, Grade	Remarks
1.		
2.		
3.		
4		
5.		
6.		
Test parameters selected representing w	vorst case conditions for ME EQUIPMENT:	Remarks
Test parameters selected representing work Oxygen concentration (%):	vorst case conditions for ME EQUIPMENT:	Remarks
	vorst case conditions for ME EQUIPMENT:	Remarks
Oxygen concentration (%)	vorst case conditions for ME EQUIPMENT:	Remarks
Oxygen concentration (%):	vorst case conditions for ME EQUIPMENT:	Remarks
Oxygen concentration (%):  Fuel	vorst case conditions for ME EQUIPMENT:	Remarks
Oxygen concentration (%):  Fuel	vorst case conditions for ME EQUIPMENT:	Remarks
Oxygen concentration (%):  Fuel	vorst case conditions for ME EQUIPMENT:	Remarks
Oxygen concentration (%):  Fuel	vorst case conditions for ME EQUIPMENT:	Remarks

## Supplementary information:

Test procedure of 11.2.2.1 a) 5) & Figs 35-37 used for tests. For circuits not in Figs 35-37, test voltage or current set at 3 times the worst case values with other parameters set at worst case values to determine if ignition can occur.

11.3	RM RESULTS TABLE: Constructional requirements for fire enclosures of ME Rass equipment				
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RMF mention the "Intended use/intended purpose"	Pass		
4.3	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 02, C-02	The manufacturer had compiled a list of known or foreseeable hazards associated with potential ignition sources and spread of fire has been identified.	Pass		
4.4	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 02	The estimates of the risk(s) were recorded in the risk management file.	Pass		

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Clause	Requirement + T	est	Re	esult - Remark	Verdict
11.3	RM RESULTS T	ABLE: Construc	ctional requirements	s for fire enclosures of ME	Pass
Clause of ISO 14971	Document Ref. (Document No.		Result - Remarks		Verdict
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 02 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures		The results of this risk evaluation were recorded in the risk management file.		Pass
6.2	Version: 1	381DT_RMF_ .00 , Section - rotocols of .RC+006	The risk control me recorded in the risk	easures selected were k management file.	Pass
6.3	Version: 1	381DT_RMF_ .00 , Section - rotocols of : RC-006		of the risk control verified and the results of re recorded in the risk	Pass
6.4	Version: 1 New evalue measures: 02  ONYX-BE3 Version: 1 Risk Grap Measures ONYX-BE3 Version: 1	381DT_RMF_ .00 , Section - of the Results	control measure(s)	e criteria that defined in	Pass
6.5	N/A		No reduction of ris analysis	k through Risk/benefit	N/A

	11.5	RM RESULTS TABLE: ME equipment and ME systems intended for use in conjunction with flammable agents				
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
1	4.27					
	4.3					
	4.4					
	5					
Ī	6.2					





		IEC 60601-1				
Clause	Clause Requirement + Test Result - Remark					
			17.4			
11.5	11.5 RM RESULTS TABLE: ME equipment and ME systems intended for use in conjunction with flammable agents					
Clause of ISO 14971		Result - Remarks	Verdict			
6.3						
6.4						
6.5						

Clause / Test Name	Test Condition	Part under test	Remarks
Cleaning (11.6.6)	Cleaning (used cloth)	Unit	No dielectric breakdown and leakage current test compliances.
Cleaning (11.6.6)	Cleaning (used Water or rubbing alcohol)	Unit	No dielectric breakdown and leakage current test compliances.
Cleaning (11.6.6)	Cleaning (used Vacuum cleaner)	Unit	No dielectric breakdown and leakage current test compliances.
Cleaning (11.6.6)	Cleaning (used Cotton swabs)	Unit	No dielectric breakdown and leakage current test compliances.
Cleaning (11.6.6)	Cleaning (used Foam swabs)	Unit	No dielectric breakdown and leakage current test compliances.

11.6.2	RM RESULTS TABLE: Overflow in ME equipment		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			

YULY				
11.6.3	RM RESULTS TABLE: Spillage	on ME equipment and ME system	N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2				

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Clause	ause Requirement + Test Result - Remark						
11.6.3	RM RESULTS TABLE: Spillage	on ME equipment and ME system	N/A				
Clause of Document Ref. in RMF (Document No. & paragraph)		Result - Remarks	Verdict				
4.3							
4.4							
5							
6.2							
6.3							
6.4							
6.5							

11.6.5	RM RESULTS TABLE: Ingress of water or particulate matter into ME EQUIPMENT and ME SYSTEMS			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2				
4.3				
4.4				
5				

11.6.6	RM RESULTS TABLE: Cleaning and disinfection of ME equipment and ME systems			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data</li> </ul>	The RMF mention the "Intended use/intended purpose"	Pass	
4.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 01, C-23	The manufacturer had compiled a list of known or foreseeable hazards associated with use of the device in environment and the required cleaning and disinfection of the device and its accessories have been identified.	Pass	
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 23	The estimates of the risk(s) were recorded in the risk management file.	Pass	

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Clause	Requi	rement + Test		Result - Remark	Verdict
11.6.6	RM syst		ng and disinfection	on of ME equipment and ME	Pass
Clause of ISO 14971		ument Ref. in RMF cument No. & paragraph)	Result - Remarks		Verdict
5	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-01, C- 23		nis risk evaluation were risk management file.	Pass
	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures			
6.2	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC+022		measures selected were risk management file.	Pass
6.3	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Release Protocols of Measures: RC-022	measures had b	es of the risk control we verified and the results of were recorded in the risk e.	Pass
6.4	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - New evaluation after measures: F-01, H-01, C- 23	control measure	that remains after the risk e(s) are applied and the criteria that defined in ment plan	Pass
	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph After Measures			
	•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Overview of the Results of the Risk			
6.5	N/A		No reduction of analysis	risk through Risk/benefit	N/A

	11.6.7	RM RESULTS TABLE: Steriliza	N/A	
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
	4.2			
$\wedge$	4.37		$\Lambda \Pi \Gamma \Lambda$	
	4.4//			
	5			
	6.2			
	6.3			





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Clause	Requirement + Test Result - Remark				Verdict	
					17/4	
11.6.7 RM RESULTS TABLE: Sterilization of ME equipment and ME systems			(0)	N/A		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	s		Verdict	
6.4						
6.5						

11.6.8	RM RESULTS TABLE: Compatibility with substances used		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2		(A)	
6.3			11/2
6.4			
6.5			

12.1	RM RESULTS TABLE: Accurac	RM RESULTS TABLE: Accuracy of controls and equipment		
Clause o		Result - Remarks	Verdict	
4.2//				
4.3				
4.4				
5				
6.2				
6.3				
6.4		(		
6.5			11/2	

12.3	RM RESULTS TABLE: Alarm systems		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.47		(N) [A	
5			
6.2			
6.3			
6.4			

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		IEC 60601-1		
Clause	Requirement + Test		Result - Remark	Verdict
	ATTA			A774
12.3	RM RESULTS TABLE: Alarm s	ystems		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	(S	Verdict
6.5				
Т				1
12.4.1	RM RESULTS TABLE: Intentio	nal exceeding of	safety limits	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	(S	Verdict
4.2				
4.3				

7.5		
4.3		
4.4		
5		
6.2		
6.3		
6.4		7/4
6.5		

12.4.2	RM RESULTS TABLE: Indication of parameters relevant to safety		
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.37		ATTA	
4.4			
5			
6.2			
6.3			
6.4			
6.5			

12.4.3	RM RESULTS TABLE: Accider	ntal selection of excessive output values	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6.5			

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Clause	Requirement + Test	Result - Remark	Verdict
12.4.4	RM RESULTS TABLE: Incorrect	et output	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5		ATTA	
6.2//			
6.3			
6.4			
6.5			
12.4.5.2	RM RESULTS TABLE: Diagnos	stic X-ray equipment	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
1.3			
4.4			
5			
6.2			
6.3			
6.4//			
6.5			
12.4.5.3	RM RESULTS TABLE: Radioth	erapy equipment	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
1.3	V212V		$\sqrt{1/\sqrt{2}}$
1.4			
5			~
6.2			
5.3			
6.4			
6.5			
	T		
12.4.5.4	RM RESULTS TABLE: Other M therapeutic radiation	E equipment producing diagnostic or	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict

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			IEC 60	601-1		
Clause	Requirement	+ Test			Result - Remark	Verdict
12.4.5.4	RM RESULT		ME equipr	nent prod	lucing diagnostic or	N/A
Clause of ISO 14971		Ref. in RMF No. & paragraph)		- Remark	s	Verdict
4.3						
4.4						
5				$\sim$		
6.2					W/A	
6.3						
6.4						
6.5						
	1					
12.4.6	RM RESUL	TS TABLE: Diagn	ostic or the	erapeutic	acoustic pressure	N/A
Clause of ISO 14971		Ref. in RMF No. & paragraph)		Result - Remarks		Verdict
4.2					1	
4.3		V				
4.4						
5						
6.2						
6.3						
6.47 🛆				$\Lambda$	77/4	
6.5					\\\\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\	
7					4	
13.1.2	waive SINGLE		in 4.7, 8.1 l	o), 8.7.2, a	tion in parts & components and 13.2.2 relative to estances	s to N/A
Power diss	ipated less th	an (W)	:	15		
Energy diss	sipated less tl	han (J)	:	900		
Part or component Measured Component tested power		Calculate dissipa		SINGLE FAULT CONDITIONS waived (Yes/No)	Remarks	
		dissipated (W)				
tes						
tes	tary informati					

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Clause	Requirement + Test	Result - Remark	Verdict
	ΑΠΓΛ	Λ	$ abla \Gamma \Delta $
Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No)
13.2.2	Electrical SINGLE FAULT CONDITIONS per Clause 8.1:	_	_
	/		
13.2.3	Overheating of transformers per Clause 15.5:	<u>-</u>	-
13.2.4	Failure of THERMOSTATS according to 13.2.13 & 15.4.2, overloading - THERMOSTATS short circuited or interrupted, the less favourable of the two:	_	ı
		(	
			77/4
13.2.5	Failure of temperature limiting devices according to 13.2.13 & 15.4.2, overloading, THERMOSTATS short circuited or interrupted, the less favourable of the two:	_	1
	_		
VIV.			
7.7			
13.2.6	Leakage of liquid - RISK MANAGEMENT FILE examined to determine the appropriate test conditions (sealed rechargeable batteries exempted)	_	1
		/	
	ATRA	(A	774
13.2.7	Impairment of cooling that could result in a HAZARD using test method of 11.1:	_	_
	Ventilation opening blocked: Test duration:3h	IP: 0.214A to 0.214A Normal operation. No hazards. No component damaged. Measure max. temp at L25 coil: 52.6°C; Plastic enclosure outside near main board: 34.7°C; Ambient: 28.0°C	No
13.2.8	Locking of moving parts – Only one part locked at a time – Also see 13.2.10 below:	_	-

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Clause	Requirement + Test	Result - Remark	Verdict		

	ΛηΓΛ	<u> </u>	$\nabla \Gamma \Lambda$
Clause No.	Description of SINGLE FAULT CONDITION	Results observed	HAZARDOUS SITUATION (Yes/No)
13.2.9	Interruption and short circuiting of motor capacitors – Motor capacitors short & open circuited <sup>1</sup> – Also see 13.10	_	_
		V measured =	
		V measured =	
13.2.10	Additional test criteria for motor operated ME EQUIPMENT in 13.2.8 &13.2.9:	_	_
	For every test in SINGLE FAULT CONDITION of 13.2.8 and 13.2.9, motor-operated EQUIPMENT stared from COLD CONDITION at RATED voltage or at the upper limit of RATED voltage range for specified time:		
	Temperatures of windings determined at the end of specified test periods or at the instant of operation of fuses, THERMAL CUT-OUTS, motor protective devices		
70	Temperatures measured as specified in 11.1.3 d)		
	Temperatures did not exceed limits of Table 26		
13.2.11	Failures of components in ME EQUIPMENT used in conjunction with OXYGEN RICH ENVIRONMENTS:	_	_
	ATTÀ		774
	A V		SID
13.2.12	Failure of parts that might result in a MECHANICAL HAZARD (See 9 & 15.3):	_	1
		_	

Supplementary information:

Test with short-circuited capacitor not performed when motor provided with a capacitor complying with IEC 60252-1 and the ME EQUIPMENT not intended for unattended use including automatic or remote control. See Attachment # and appended Table 8.10.

13.2.6 RM RESULTS TABLE: Leakage of liquid N/A		13.2.6	RM RESULTS TABLE: Leakage of liquid	N/A
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Clause	Requirement + Test	Result - Remark	Verdict
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2			
6.3//			
6.4			
6.5			
14.1	RM RESULTS TABLE: Program	nmable electrical medical systems - General	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	(17/2	( )	174
4.3			N''///
4.4			V
5	RM RESULTS TABLE: Identific	cation of known and foreseeable hazards	N/A
5 14.6.1 Clause of		cation of known and foreseeable hazards  Result - Remarks	N/A Verdict
5 14.6.1 Clause of ISO 14971	Document Ref. in RMF		
5 14.6.1 Clause of ISO 14971 4.3	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
5 14.6.1 Clause of ISO 14971 4.3	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk con	Result - Remarks	Verdict N/A
5 14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction of the conduction o	Result - Remarks	Verdict
14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction of the conduction o	Result - Remarks	Verdict N/A
14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction Document Ref. in RMF (Document No. & paragraph)	Result - Remarks  ntrol  Result - Remarks	N/A Verdict
14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Require	Result - Remarks  Introl Result - Remarks  Ement specification	N/A Verdict N/A
5 14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1 14.7 Clause of	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk con Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Require Document Ref. in RMF	Result - Remarks  ntrol  Result - Remarks	N/A Verdict
14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1 Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Require	Result - Remarks  Introl Result - Remarks  Ement specification	N/A Verdict N/A
5 14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1 14.7 Clause of ISO 14971 6.3	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Require Document Ref. in RMF (Document No. & paragraph)	Result - Remarks  ntrol  Result - Remarks  ement specification  Result - Remarks	N/A Verdict  N/A Verdict
5 14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1 14.7 Clause of ISO 14971 6.3	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk con Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Require Document Ref. in RMF	Result - Remarks  ntrol  Result - Remarks  ement specification  Result - Remarks	N/A Verdict  N/A Verdict  N/A
14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1 Clause of ISO 14971 6.3	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Require Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Architection RM RM RESULTS TABLE: Architection RM RESULTS TABLE: Architection RM	Result - Remarks  ntrol  Result - Remarks  ement specification  Result - Remarks	N/A Verdict  N/A Verdict
14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1 14.7 Clause of ISO 14971 6.3	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Require Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Architect Document Ref. in RMF	Result - Remarks  ntrol  Result - Remarks  ement specification  Result - Remarks	N/A Verdict  N/A Verdict  N/A
14.6.1 Clause of ISO 14971 4.3 14.6.2 Clause of ISO 14971 6.1	Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Risk conduction Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Require Document Ref. in RMF (Document No. & paragraph)  RM RESULTS TABLE: Architect Document Ref. in RMF	Result - Remarks  ntrol  Result - Remarks  ement specification  Result - Remarks  cture  Result - Remarks	N/A Verdict  N/A Verdict  N/A





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Clause	Requirement + Test	Result	- Remark	Verdict
	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		/ \ \	
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks		Verdict
6.2				
6.3				
14.10	RM RESULTS TABLE: Verifica	ion		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks		Verdict
6.3				
14.11	DM DECILITO TADI E. DEMO	alidation		NI/A
	RM RESULTS TABLE: PEMS v			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks		Verdict
6.3				
	ATITA		A	17/4
14.13	RM RESULTS TABLE: Connect to other equipment	tion of PEMS by NETWO	RK/DATA COUPLING	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks		Verdict
4.2				
4.3				
4.4				
5 7/4		(17/2		
6.2				
6.3				
15.1	RM RESULTS TABLE: Const controls and indicators of ME		t - Arrangements of	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks		Verdict
4.2				W// <del>/</del>
4.3				
4.4				
5				
6.2				
6.3				
6.4				
6.5				





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Clause	Requirement + Test	Result - Remark	Verdict				

4	( \lambda \forall \)	J7A		
15.3	TABLE: Mechanical S	strength tests 1)	Pass	
Clause	Name of Test	Test conditions	Observed results/Remarks	
15.3.2	Push Test	Force = 250 N ± 10 N for 5 s  Part under test : Unit (Top), Unit (Side), Unit (Bottom)	There was no cracking of the enclosure and were no live parts that became accessible	
15.3.3	Impact Test	Steel ball (50 mm in dia., 500 g ± 25 g) falling from a 1.3 m  Part under test: Unit (Top), Unit (Side), Unit (Bottom)	There was no cracking of the enclosure and were no live parts that became accessible	
15.3.4.1	Drop Test (hand- held)	Free fall height (m) =	-	
15.3.4.2	Drop Test (portable)	Drop height (cm) = 5 cm	There was no damage to the interior or exterior of the tested sample which caused exposure to live parts or increased risk of electric shock.	
15.3.5	Rough handling test	Travel speed (m/s) =		
15.3.6	Mould Stress Relief	7 h in oven at temperature (°C) = 70°C	There was no warping, cracking, breaking and exposure of live parts.	
7				

Supplementary information: <sup>1)</sup>As applicable, Push, Impact, Drop, Mould Stress Relief and Rough Handling Tests (delete not applicable rows).





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		·				

			* 1 / / /
15.3.2	RM RESULTS TABLE: Push tes	st	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RM mention the "Intended use/intended purpose"	Pass
4.3	<ul> <li>ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 02, C-02</li> </ul>	The manufacturer had compiled a list of known or foreseeable hazards associated with failure of the protective enclosure have been identified.	Pass
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 02	The estimates of the risk(s) were recorded in the risk management file.	Pass
5	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 02	The results of this risk evaluation were recorded in the risk management file.	Pass
	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures		

15.3.3	RM RESULTS TABLE: Impact test			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RM mention the "Intended use/intended purpose"	Pass	
4.3	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 02, C-02	The manufacturer had compiled a list of known or foreseeable hazards associated with failure of the protective enclosure have been identified.	Pass	
4.4	♦ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 02	The estimates of the risk(s) were recorded in the risk management file.	Pass	

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Clause	Requirement + Test	Result - Remark	Verdict
15.3.3	RM RESULTS TABLE: Impact t	est	Pass
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
5	◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 02 ◆ ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures	The results of this risk evaluation were recorded in the risk management file.	Pass

15.3.4.2		RM	RESULTS TABLE: Portable	ME equipment	Pass
Clause ISO 1497	-		ument Ref. in RMF cument No. & paragraph)	Result - Remarks	Verdict
4.2		•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Version Data	The RM mention the "Intended use/intended purpose"	Pass
4.3		<b>*</b>	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Analysis: F-01, H- 02, C-02	The manufacturer had compiled a list of known or foreseeable hazards associated with failure of the protective enclosure have been identified.	Pass
4.4		•	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 02	The estimates of the risk(s) were recorded in the risk management file.	Pass
5		* *	ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Evaluation Before Measures: F-01, H-02, C- 02 ONYX-BE381DT_RMF_ Version: 1.00 , Section - Risk Graph Before Measures	The results of this risk evaluation were recorded in the risk management file.	Pass

15.3.5	RM RESULTS TABLE: Rough handling test				
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict		
4.27		$(\lambda \nabla \nabla \Delta)$			
4,3					
4.4					
5					

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Clause	Requirement + Test	Result - Remark	Verdict
15.4.1	RM RESULTS TABLE: Constru	action of connectors	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5,7			
6.2			
6.3			
6.4			
6.5			
			-
15.4.2.1 a	RM RESULTS TABLE: THERMAI	CUT-OUTS and OVER-CURRENT RELEASES	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			,

K	15.4.2.1 b	RM RESULTS TABLE: THERMAL	N/A	
	Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
	4.2			
	4.3			
	4.4			

15.4.2.1 c	RM RESULTS TABLE: Independent non-self-resetting thermal cut-out					
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict			
4.2						
4.3						
4.4						

15.4.2.1 d	RM RESULTS TABLE: Loss of function of ME EQUIPMENT			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2				
4.3				
4.4				

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4.4 5



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Clause	Requirement + Test		Result - Remark	Verdict
•			A 7	17.4
15.4.2.1 h	RM RESULTS TABLE: ME EQUI	PMENT with tubula	r heating elements	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	(S	Verdict
4.2				
4.3				
4.4				
	T			
15.4.3.1	RM RESULTS TABLE: Housing			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	(S	Verdict
4.2				
4.3				
4.4				
			<del>(</del>	
15.4.3.2	RM RESULTS TABLE: Connec	tion		//N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	(S	Verdict
4.2				
4.3				
4.4				
	T			
15.4.3.3	RM RESULTS TABLE: Protecti			N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	<b>(S</b>	Verdict
4.2				
4.3				
4.4				
15.4.3.4	RM RESULTS TABLE: Lithium	batteries		N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	(S	Verdict
4.2				
4.3				
4.4				
	T			
15.4.3.5	RM RESULTS TABLE: Excessi	ve current and vo	oltage protection	N/A
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remark	(S	Verdict
4.2			The Market of the Control of the Con	
4.3				
4.4				





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Clause	Requireme	ent + Test		Result -	Remark	Verdict
		ATTA				ANDA
15.4.3.5	RM RESU	JLTS TABLE: Exc	essive current a	nd voltage pro	tection	N/A
Clause of ISO 14971		nt Ref. in RMF nt No. & paragrap	Result - Re	marks		Verdict
5	(2000)	m reci el paragrap	,			
6.2						
6.3						
6.4						
6.5						
			<u>'</u>	AD		<u>'</u>
15.4.4	RM RESU	JLTS TABLE: Indi	cators			N/A
Clause of ISO 14971		nt Ref. in RMF nt No. & paragrap	Result - Re	marks		Verdict
4.2						
4.3						
4.4						
			<u>'</u>			MP
15.4.5	RM RESU	JLTS TABLE: Pre-	set controls			N/A
Clause of ISO 14971		nt Ref. in RMF nt No. & paragrap	Result - Re	marks		Verdict
4.2						
4.3						
4.47/						
5						
6.2				and the state of t		
6.3						
6.4						
6.5						
15.4.6	TABLE: ac	tuating parts of c	ontrols of ME EQU	IIPMENT – torqu	ie & axial pull tes	ts / /N/A
		Torque from Table 30 (Nm)	Axial force applied (N)	Unacceptable RISK occurred Yes/No	Remarks	
				Ĩ	1	

shape (e.g. control knob with pointer)

RM RESULTS TABLE: Entry of liquids 15.4.7.3 b N/A

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Clause	Requiremen	nt + Test				Result -	Remai	rk			Verdict
		$-\Delta$	$ abla \Delta $						/\	ALC.	7 ()
Clause of ISO 14971	Document (Documen			Result	- Rem	arks					Verdict
4.2											
4.3											
4.4											
15.5.1.2						cuit applied d under sing					N/A
Primary vol	ltage (most a	dverse valu	ue from 90	% to 110 %	of RAT	ED voltage)(V	')¹:				_
RATED inpu	t frequency	(Hz)					:				-
Winding tested	Class of insulation (A, B, E, F, or H)	Type protective (fuse, o breaker) /	e device circuit	Protective device operated Yes/No	prote	e to THERMAL BILITY (when ective device did not erate)(Min)	allo temp Tab	mum wed from le 31 C)	Maxin wind tem measu (°C	ing p ured	Ambient (°C)
			V/5							W	Ä
		1								7	
<sup>1</sup> Loads on o windings or		s between pint that co	uld be sh			use load. Sh			lied at	end o	of
						- Alexander					
15.5.1.3	TABLE: trar under short				ducted	d only when	protec	tive de	vice		N/A
Primary vol	ltage, most a	adverse va	lue betw	een 90 % t	o 110	% of RATED V	voltag	e (V) <sup>1</sup> :	;		
RATED input	t frequency	(Hz)									$\rightarrow$
Test current just below minimum current that would activate protective device & achieve THERMAL STABILITY under method a) (A)											
						at operated ι					
Winding tes	sted ins	ass of ulation , E, F, H)	used	protective de fuse, circu ker)/Ratings	it	Maximum all temp fro Table 31 (	m	windi	kimum ng tem ured (°C		Ambient (°C)
		-				11/1/7		I			-

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Clause	Requirement + Test	Result - Remark	Verdict		

## Supplementary information:

<sup>1</sup> Loads on other windings between no load and their NORMAL USE load. Time durations: - IEC 60127-1 fuse: 30 min at current from Table 32.

Non IEC 60127-1 fuse: 30 min at the current based on characteristics supplied by fuse manufacturer, specifically, 30 min clearing-time current. When no 30 min clearing-time current data available, test current from Table 32 used until THERMAL STABILITY achieved.

- Other types of protective devices: until THERMAL STABILITY achieved at a current just below minimum current operating the protective device in a). This portion concluded at specified time or when a second protective device opened.

15.5.2 TABL	E: Transformer dielectric strength after humidity preconditioning of 5.7					
Transformer Model/Type/ Part No	Test voltage applied between	Test voltage, (V)	Test frequency (Hz)	Breakdown Yes/No	Deterioration Yes/No	
	Primary & secondary windings					
	Primary winding & frame					
	Secondary winding & frame					
					V	

**Supplementary information:** Tests conducted under the conditions of 11.1, in ME EQUIPMENT or under simulated conditions on the bench. See Clause 15.5.2 for test parameters & other details

16.1	RM RESULTS TABLE: General requirements for ME Systems			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2		4		
4.3				
4.4				
5				

16.6.1	TABLE: LEAKAGE	CURRENTS IN ME	SYSTEM_TOUC	CH CURRENT MEASUREMENTS	N/A
Specific area where TOUCH CURRENT measured (i.e., from or between parts of ME SYSTEM within PATIENT ENVIRONMENT)		Allowable TOUCH CURRENT in NORMAL CONDITION (µA)	Measured ΤΟՍCH CURRENT in NORMAL CONDITION (μA)	Allowable TOUCH CURRENT in event of interruption of PROTECTIVE EARTH CONDUCTOR, (μA)	Measured TOUCH CURRENT in event of interruption of PROTECTIVE EARTH CONDUCTOR, (μA)
		100		500	
		100		500	
		100		500	
\(\frac{1}{2}\)		100		500	
		100		500	

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Clause	Requirement + Test	Result - Remark	Verdict		

16.9.1	RM RESULTS TABLE: Connec	N/A	
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict
4.2			
4.3			
4.4			
5			
6.2			
6.3			
6.4			
6.5			

17	RM RESULTS TABLE: Electromagnetic compatibility of ME equipment and N/A ME systems			
Clause of ISO 14971	Document Ref. in RMF (Document No. & paragraph)	Result - Remarks	Verdict	
4.2				
4.3				
4.4				
5				
6.2				
6.3				
6.4				
6.5				

SP	TABLE: Additional or special tests conducted			N/A	
Clause and Name of Test		Test type and condition	Observed results	Observed results	
		ATIZA	AT	17.4	
				-	
Supplementary information:					





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