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REPORT

Prepared For:

Summit Data Communications

Akron, OH USA

Equipment: WiFi Transmitter
Model No: SDC-PE15N

Prepared By:

Elliott Laboratories

an NTS Company
38995 Cherry Street
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Report Number: R87495
Job Number: J87012

TABLE OF CONTENTS

REVISION SUMMARY

The following is a list of revisions that have been made to the report.

Document History				
Revision	***Issue Date***	***Affected Pages***	***Description Of Modifications***	***Revised By***
	June 4, 2012		Initial Release	

NOTE: Latest revisions to report are identified by Bold Double Underlined Font.

REPORT SUMMARY

PREPARED FOR
Summit Data Communications
Akron, OH
USA

STANDARD	**TITLE**
EN 60950-1: 2006 +A11:2009 & A1:2010	Information Technology Equipment – Safety – Part 1: General Requirements

Job Number: J87012 Date of Issue: June 4, 2012
Report Number: R87495 Revision Date: N/A

TESTING LABORATORY'S INFORMATION

Name: Elliott Laboratories, LLC
Address: 38995 Cherry Street
Newark, CA 94560
Phone: 510-578-3500
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TEST LOCATION INFORMATION

Elliott Laboratories, LLC
38995 Cherry Street
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510-578-3500
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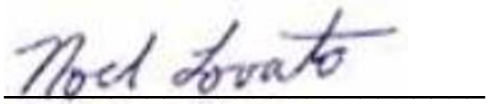
Test Engineer



Noel Lovato
Product Safety Engineer

Reviewed By:

Roberto Pasos
Product Safety Engineer

Gary Izard
Quality Assurance Representative

MANUFACTURER'S INFORMATION

Name**:** Summit Data Communications
Address: 526 South Main St, Suite 805
Akron, OH 44311
USA

Contact: Sue White
Phone: 330-434-7929
Fax: 330-434-7931
E-Mail: swhite@summitdatacom.com

Equipment: WiFi Transmitter
Model Name: SDC-PE15N

Overview

The Summit Data Communications models SDC-PE15N is a Wi-Fi transmitter designed to transmit data signals between various electronic products. The EUT would typically be connected to a portable data device.

Model Similarities and Differences

NA

Ratings:

Model	Electrical Ratings: Volts	Amps	Hz	Dimensions: (L x W x H cm)	Equipment Mobility:
SDC-PE15N	3.3	-	-	5.0 x 3.0 x .3	For building in

Operating Condition:	Protection Class:	Enclosure Protection Rating:	External Power Supply Electrical Ratings: Volts	Amps	Hz
Continuous	III	NA	NA	NA	NA

GENERAL INFORMATION REGARDING THE REPORT FORMAT

Non-compliance: A summary of non-compliances identified in this report is located in the Findings Summary section of this report.

Resolution of Non-compliance: All resolutions to the non-compliances listed in this report are to be addressed by the manufacturer and included as part of the technical file maintained for this product.

CONCLUSION

The purpose of this report is to demonstrate compliance with accepted standards for product safety and as proof of compliance to the EU's Low Voltage Directive. Subsequent pages give the details of this investigation.

This report is based on the following standards: EN 60950-1:2006 A11:2009 A1:2010. The wording of the requirements listed in this test report are provided for reference and informational purposes only and should not be considered a precise transcription of the standard as adopted by CENELEC. In case of doubt, reference should be made to the aforementioned standard.

FINDINGS SUMMARY

The Findings Summary is a summary of the discrepancies and non-compliances to the aforementioned standard(s). The requirement and its section number corresponding to the standard are given for each item. The Observations include a brief description of why we believe the product is not in compliance as well as recommendations on how to rectify the issue(s).

Item No.	Section	Requirements & Observations
1.		

EVALUATION CHECKLIST

Test Report issued under the responsibility of:

Elliott Laboratories

TEST REPORT

EN 60950-1
Information technology equipment – Safety – Part 1: General requirements

Report Number ..... :	R87495
Date of issue ..... :	June 4, 2012
Total number of pages	66
CE Testing Laboratory ..... :	Elliott Laboratories an NTS Company
Address ..... :	38995 Cherry Street, Newark, CA 94560
Applicant's name ..... :	Summit Data Communications
Address ..... :	526 South Main St, Suite 805, Akron, OH 44311
Manufacturer's name……..:	Summit Data Communications
Address ..... :	526 South Main St, Suite 805, Akron, OH 44311
Test specification:	
Standard ..... :	EN 60950-1:2006 (2nd Edition); A11:2009 & A1:2010
Test procedure ..... :	CE Scheme
Non-standard test method……..:	N/A
Test Report Form No. ..... :	IEC60950_1B
Test Report Form(s) Originator..... :	SGS Fimko Ltd
Master TRF ..... :	Dated 2010-04

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description ..... :	WiFi Transmitter
Trade Mark ..... :	SUMMIT DATA COMMUNICATIONS
Manufacturer ..... :	Summit
Model/Type reference ..... :	SDC-PE15N
Ratings ..... :	3.3 V DC

Testing procedure and testing location:			
☒	**CE Testing Laboratory**:	NTS	
Testing location/ address..... :		38995 Cherry Street Newark CA 94560 USA	
☐	**Associated CB Laboratory:**		
Testing location/ address..... :			
	Tested by (name + signature) .....:		
	Approved by (name + signature).....:		
☐	Testing procedure: **TMP**		
Testing location/ address..... :			
	Tested by (name + signature) .....:		
	Approved by (name + signature).....:		
☐	Testing procedure: **WMT**		
Testing location/ address..... :			
	Tested by (name + signature) .....:		
	Witnessed by (name + signature) ....:		
	Approved by (name + signature).....:		
☐	Testing procedure: **SMT**		
Testing location/ address..... :			
	Tested by (name + signature) .....:		
	Approved by (name + signature).....:		
	Supervised by (name + signature) ...:		
☐	Testing procedure: **RMT**		
Testing location/ address..... :			
	Tested by (name + signature) .....:		
	Approved by (name + signature).....:		
	Supervised by (name + signature) ...:		

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

Summary of testing: **CE Report No. R77970 (EN60950-1 2001) was provided for review. The test data was reviewed for compliance with new requirements and noted in this report.**	
Tests performed (name of test and test clause): **4.5 Heating**	**Testing location:** **Elliott Labs** **684 W Maude Ave** **Sunnyvale CA 94585** **USA**
Summary of compliance with National Differences List of countries addressed: NA ☒ The product fulfils the requirements of EN60950-1:2006 + A11:2009 & A1: 2010.	

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.

(Additional requirements for markings. See 1.7 NOTE)

Test item particulars ..... :	
Equipment mobility ..... :	[] movable [] hand-held [] transportable [] stationary [x] for building-in [] direct plug-in
Connection to the mains ..... :	[] pluggable equipment [] type A [] type B [] permanent connection [] detachable power supply cord [] non-detachable power supply cord [x] not directly connected to the mains
Operating condition ..... :	[x] continuous [] rated operating / resting time:
Access location ..... :	[x] operator accessible [] restricted access location
Over voltage category (OVC) ..... :	[] OVC I [] OVC II [] OVC III [] OVC IV [x] other:
Mains supply tolerance (%) or absolute mains supply values ..... :	N/A
Tested for IT power systems ..... :	[] Yes [x] No
IT testing, phase-phase voltage (V) ..... :	N/A
Class of equipment ..... :	[] Class I [] Class II [x] Class III [] Not classified
Considered current rating of protective device as part of the building installlation (A) ..... :	N/A
Pollution degree (PD) ..... :	[] PD 1 [x] PD 2 [] PD 3
IP protection class ..... :	NA
Altitude during operation (m) ..... :	0-2000
Altitude of test laboratory (m) ..... :	4
Mass of equipment (kg) ..... :	<.05
Possible test case verdicts:	
- test case does not apply to the test object ..... :	NA (or N)
- test object does meet the requirement ..... :	P (Pass)
- test object does not meet the requirement ..... :	F (Fail)

Testing .....:	
Date of receipt of test item .....:	04/04/2012
Date(s) of performance of tests .....:	NA

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 6.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the samples submitted for evaluation are representative of the products from each factory has been provided.....:

☐ Yes
☒ Not applicable

When differences exist; they shall be identified in the General product information section.

Conditions of Acceptability

- The input power to be provided by an SELV source.
- A suitable enclosure to be provided.

Name and address of factory (ies).....: 526 South Market, Suite 407
Akron, OH USA

General product information:

The Summit Data Communications models SDC-PE15N is a Wi-Fi transmitter designed to transmit data signals between various electronic products. The device would typically be connected to a portable data device.

Abbreviations used in the report:

- normal conditions	NC	- single fault conditions	SFC
- functional insulation	OP	- basic insulation	BI
- double insulation	DI	- supplementary insulation	SI
- between parts of opposite polarity	BOP	- reinforced insulation	RI

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1	**GENERAL**		
1.5	**Components**		P
1.5.1	General		P
	Comply with IEC60950-1 or relevant component standard	(see appended tables 1.5.1)	P
1.5.2	Evaluation and testing of components		P
1.5.3	Thermal controls	None used	NA
1.5.4	Transformers	No transformers used	NA
1.5.5	Interconnecting cables	No interconnecting cables	NA
1.5.6	Capacitors bridging insulation	None used	NA
1.5.7	Resistors bridging insulation	None used	NA
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		NA
1.5.7.2	Resistors bridging double or reinforced insulation between AC mains and other circuits		NA
1.5.7.3	Resistors bridging double or reinforced insulation between AC mains and antenna or coaxial cable		NA
1.5.8	Components in equipment for IT power systems		NA
1.5.9	Surge suppressors		NA
1.5.9.1	General		NA
1.5.9.2	Protection of VDRs		NA
1.5.9.3	Bridging of functional insulation by a VDR		NA
1.5.9.4	Bridging of basic insulation by a VDR		NA
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		NA
1.6	**Power interface**		P
1.6.1	AC power distribution systems	Not mains powered	NA
1.6.2	Input current	SELV consideration	P
1.6.3	Voltage limit of hand-held equipment	To be considered in end product	NA
1.6.4	Neutral conductor	Not mains connected	NA
1.7	**Marking and instructions**		P
1.7.1	Power rating and identification markings	Not required. Information for reference only	NA
1.7.1.1	Power rating marking		NA

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Multiple mains supply connections.....:		NA
	Rated voltages or voltage ranges (V) ..... :		NA
	Symbol for nature of supply, for DC only..... :		NA
	Rated frequency or rated frequency range (Hz) ... :		NA
	Rated current (mA or A) ..... :		NA
1.7.1.2	Identification markings		P
	Manufacturer's name or trade-mark or identification mark:		P
	Model identification or type reference ..... :		P
	Symbol for Class II equipment only ..... :	Not class II	NA
	Other markings and symbols ..... :		NA
1.7.2	Safety instructions and marking	Stated in user manual	P
1.7.2.1	General		NA
1.7.2.2	Disconnect devices		NA
1.7.2.3	Overcurrent protective device		NA
1.7.2.4	IT power distribution systems	Not for IT power distribution systems	NA
1.7.2.5	Operator access with a tool		NA
1.2.7.6	Ozone		NA
1.7.3	Short duty cycles	Not for short duty cycles	NA
1.7.4	Supply voltage adjustment ..... :		NA
	Methods and means of adjustment; reference to installation instructions ..... :		NA
1.7.5	Power outlets on the equipment ..... :	None provided	NA
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) ..... :		NA
1.7.7	Wiring terminals		NA
1.7.7.1	Protective earthing and bonding terminals ..... :		NA
1.7.7.2	Terminals for AC mains supply conductors		NA
1.7.7.3	Terminals for DC mains supply conductors		NA
1.7.8	Controls and indicators	No controls or indicators relied upon	NA
1.7.8.1	Identification, location and marking ..... :		NA
1.7.8.2	Colours ..... :		NA
1.7.8.3	Symbols according to IEC 60417 ..... :		NA
1.7.8.4	Markings using figures ..... :		NA

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.9	Isolation of multiple power sources ..... :		NA
1.7.10	Thermostats and other regulating devices ..... :		NA
1.7.11	Durability		NA
1.7.12	Removable parts	No removable parts	NA
1.7.13	Replaceable batteries ..... :		NA
	Language(s) ..... :		—
1.7.14	Equipment for restricted access locations ..... :	Not for restricted access locations	NA
2	**PROTECTION FROM HAZARDS**		NA
2.1	Protection from electric shock and energy hazards		NA
2.1.1	Protection in operator access areas	Class III equipment. No hazardous voltage within equipment.	NA
2.1.1.1	Access to energized parts	Internally mounted, no access	NA
	Test by inspection ..... :		NA
	Test with test finger (Figure 2A) ..... :		NA
	Test with test pin (Figure 2B) ..... :		NA
	Test with test probe (Figure 2C) ..... :		NA
2.1.1.2	Battery compartments	No batteries used	NA
2.1.1.3	Access to ELV wiring	No ELV	NA
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring	Class III equipment	NA
2.1.1.5	Energy hazards ..... :	No energy hazards	NA
2.1.1.6	Manual controls	No manual controls	NA
2.1.1.7	Discharge of capacitors in equipment		NA
	Measured voltage (V); time-constant (s)..... :		—
2.1.1.8	Energy hazards – DC mains supply	Not mains connected	NA
	a) Capacitor connected to the DC mains supply ..... :		NA
	b) Internal battery connected to the DC mains supply:		NA
2.1.1.9	Audio amplifiers ..... :	None used	NA
2.1.2	Protection in service access areas		NA
2.1.3	Protection in restricted access locations		NA
2.2	**SELV circuits**		P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.2.1	General requirements		P
2.2.2	Voltages under normal conditions (V) ..... :		P
2.2.3	Voltages under fault conditions (V) ..... :		P
2.2.4	Connection of SELV circuits to other circuits ..... :	Only SELV to SELV	P
2.3	**TNV circuits**		NA
2.3.1	Limits	No TNV used	NA
	Type of TNV circuits..... :		—
2.3.2	Separation from other circuits and from accessible parts		NA
2.3.2.1	General requirements		NA
2.3.2.2	Protection by basic insulation		NA
2.3.2.3	Protection by earthing		NA
2.3.2.4	Protection by other constructions ..... :		NA
2.3.3	Separation from hazardous voltages		NA
	Insulation employed..... :		—
2.3.4	Connection of TNV circuits to other circuits		NA
	Insulation employed..... :		—
2.3.5	Test for operating voltages generated externally		NA
2.4	**Limited current circuits**		NA
2.4.1	General requirements	Not a limited current circuit	NA
2.4.2	Limit values		NA
	Frequency (Hz)..... :		—
	Measured current (mA)..... :		—
	Measured voltage (V)..... :		—
	Measured circuit capacitance (nF or µF)..... :		—
2.4.3	Connection of limited current circuits to other circuits		NA
2.5	**Limited power sources** (see appended table 2.5)		NA
	a) Inherently limited output	Not a limited power source	NA
	b) Impedance limited output		NA
	c) Regulating network limited output under normal operating and single fault condition		NA
	d) Overcurrent protective device limited output		NA
	Max output voltage (V), max output current (A), max apparent power (VA)..... :		—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Current rating of overcurrent protective device (A) .:		—
	Use of integrated circuit (IC) current limiters	(See Annex CC)	
2.6	**Provisions for earthing and bonding**		NA
2.6.1	Protective earthing	Class III equipment	NA
2.6.2	Functional earthing		NA
2.6.3	Protective earthing and protective bonding conductors		NA
2.6.3.1	General		NA
2.6.3.2	Size of protective earthing conductors		NA
	Rated current(A), cross-sectional area(mm^2), AWG:		—
2.6.3.3	Size of protective bonding conductors		NA
	Rated current(A), cross-sectional area(mm^2), AWG:		—
	Protective current rating (A), cross-sectional area (mm^2), AWG..... :		
2.6.3.4	Resistance of earthing conductors and their termina-tions; resistance (Ω), voltage drop (V), test current (A), duration (min)..... :		NA
2.6.3.5	Colour of insulation ..... :		NA
2.6.4	Terminals		NA
2.6.4.1	General		NA
2.6.4.2	Protective earthing and bonding terminals		NA
	Rated current (A), type, nominal thread diameter (mm):		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		NA
2.6.5	Integrity of protective earthing		NA
2.6.5.1	Interconnection of equipment		NA
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		NA
2.6.5.3	Disconnection of protective earth		NA
2.6.5.4	Parts that can be removed by an operator		NA
2.6.5.5	Parts removed during servicing		NA
2.6.5.6	Corrosion resistance		NA
2.6.5.7	Screws for protective bonding		NA
2.6.5.8	Reliance on telecommunication network or cable distribution system		NA
2.7	**Overcurrent and earth fault protection in primary circuits**		NA

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Basic requirements		NA
	Instructions when protection relies on building installation	No primary circuits	NA
2.7.2	Faults not simulated in 5.3.7		NA
2.7.3	Short-circuit backup protection		NA
2.7.4	Number and location of protective devices ..... :		NA
2.7.5	Protection by several devices		NA
2.7.6	Warning to service personnel ..... :		NA
2.8	**Safety interlocks**		NA
2.8.1	General principles	None used	NA
2.8.2	Protection requirements		NA
2.8.3	Inadvertent reactivation		NA
2.8.4	Fail-safe operation		NA
	Protection against extreme hazard		NA
2.8.5	Moving parts		NA
2.8.6	Overriding		NA
2.8.7	Switches, relays and their related circuits		NA
2.8.7.1	Separation distances for contact gaps and their related circuits (mm) ..... :		NA
2.8.7.2	Overload test		NA
2.8.7.3	Endurance test		NA
2.8.7.4	Electric strength test		NA
2.8.8	Mechanical actuators		NA
2.9	**Electrical insulation**		NA
2.9.1	Properties of insulating materials	Certified materials used	NA
2.9.2	Humidity conditioning		NA
	Relative humidity (%), temperature (°C) ..... :		—
2.9.3	Grade of insulation		NA
2.9.4	Separation from hazardous voltages		NA
	Method(s) used ..... :		—
2.10	**Clearances, creepage distances and distances through insulation**		P
2.10.1	General		P
2.10.1.1	Frequency ..... :		NA
2.10.1.2	Pollution degrees ..... :	Degree 2 used	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.1.3	Reduced values for functional insualtion		NA
2.10.1.4	Intervening unconnected conductive parts		NA
2.10.1.5	Insulation with varying dimensions		NA
2.10.1.6	Special separation requirements	No special requirements	NA
2.10.1.7	Insulation in circuits generating starting pulses	No starting pulses	NA
2.10.2	Determination of working voltage	SELV source with no upcon-verting transformers in use	NA
2.10.2.1	General		NA
2.10.2.2	RMS working voltage		NA
2.10.2.3	Peak working voltage		NA
2.10.3	Clearances	Only functional required	NA
2.10.3.1	General		P
2.10.3.2	Mains transient voltages		NA
	a) AC mains supply ..... :		NA
	b) Earthed DC mains supplies ..... :		NA
	c) Unearthed DC mains supplies ..... :		NA
	d) Battery operation ..... :		NA
2.10.3.3	Clearances in primary circuits		NA
2.10.3.4	Clearances in secondary circuits	Only functional required	NA
2.10.3.5	Clearances in circuits having starting pulses		NA
2.10.3.6	Transients from AC mains supply ..... :	Not mains connected	NA
2.10.3.7	Transients from DC mains supply ..... :	Not mains connected	NA
2.10.3.8	Transients from telecommunication networks and cable distribution systems ..... :		NA
2.10.3.9	Measurement of transient voltage levels		NA
	a) Transients from a mains suplply		NA
	For an AC mains supply ..... :		NA
	For a DC mains supply ..... :		NA
	b) Transients from a telecommunication network :		NA
2.10.4	Creepage distances	Functional used	NA
2.10.4.1	General		NA
2.10.4.2	Material group and caomparative tracking index		NA
	CTI tests..... :	Material group IIIb is assumed to be used	—
2.10.4.3	Minimum creepage distances	No mimimum distances	NA

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.5	Solid insulation		NA
2.10.5.1	General		NA
2.10.5.2	Distances through insulation	No minimum requried for functional	NA
2.10.5.3	Insulating compound as solid insulation	None used	NA
2.10.5.4	Semiconductor devices		NA
2.10.5.5.	Cemented joints	Not used	NA
2.10.5.6	Thin sheet material – General	Not used	NA
2.10.5.7	Separable thin sheet material		NA
	Number of layers (pcs)..... :		—
2.10.5.8	Non-separable thin sheet material	Not used	NA
2.10.5.9	Thin sheet material – standard test procedure		NA
	Electric strength test		—
2.10.5.10	Thin sheet material – alternative test procedure	Not used	NA
	Electric strength test		—
2.10.5.11	Insulation in wound components	Wound components not used	NA
2.10.5.12	Wire in wound components		NA
	Working voltage ..... :		NA
	a) Basic insulation not under stress ..... :		NA
	b) Basic, supplemetary, reinforced insulation ..... :		NA
	c) Compliance with Annex U ..... :		NA
	Two wires in contact inside wound component; angle between 45° and 90° ..... :		NA
2.10.5.13	Wire with solvent-based enamel in wound components	Solvent-based enamel not used	NA
	Electric strength test		—
	Routine test		NA
2.10.5.14	Additional insulation in wound components	Not used	NA
	Working voltage ..... :		NA
	- Basic insulation not under stress ..... :		NA
	- Supplemetary, reinforced insulation ..... :		NA
2.10.6	Construction of printed boards	Certified boards used	NA
2.10.6.1	Uncoated printed boards		NA
2.10.6.2	Coated printed boards	Coated boards not used	NA

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		NA
2.10.6.4	Insulation between conductors on different layers of a printed board		NA
	Distance through insulation		NA
	Number of insulation layers (pcs) ..... :		NA
2.10.7	Component external terminations	No external terminations	NA
2.10.8	Tests on coated printed boards and coated components	No coated boards used	NA
2.10.8.1	Sample preparation and preliminary inspection		NA
2.10.8.2	Thermal conditioning		NA
2.10.8.3	Electric strength test		NA
2.10.8.4	Abrasion resistance test		NA
2.10.9	Thermal cycling	No thermal cycling	NA
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Not degree 1	NA
2.10.11	Tests for semiconductor devices and cemented joints		NA
2.10.12	Enclosed and sealed parts	No enclosed / sealed parts used	NA
3	**WIRING, CONNECTIONS AND SUPPLY**		NA
3.1	General		NA
3.1.1	Current rating and overcurrent protection		NA
3.1.2	Protection against mechanical damage		NA
3.1.3	Securing of internal wiring		NA
3.1.4	Insulation of conductors		NA
3.1.5	Beads and ceramic insulators		NA
3.1.6	Screws for electrical contact pressure		NA
3.1.7	Insulating materials in electrical connections		NA
3.1.8	Self-tapping and spaced thread screws		NA
3.1.9	Termination of conductors		NA
	10 N pull test		NA
3.1.10	Sleeving on wiring		NA
3.2	**Connection to a mains supply**		NA
3.2.1	Means of connection	No connection to mains supply	NA
3.2.1.1	Connection to an AC mains supply		NA
3.2.1.2	Connection to a DC mains supply		NA

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Clause	Requirement + Test	Result - Remark	Verdict
3.2.2	Multiple supply connections		NA
3.2.3	Permanently connected equipment		NA
	Number of conductors, diameter of cable and conduits (mm) ..... :		—
3.2.4	Appliance inlets		NA
3.2.5	Power supply cords		NA
3.2.5.1	AC power supply cords		NA
	Type ..... :		—
	Rated current(A), cross-sectional area(mm^2), AWG:		—
3.2.5.2	DC power supply cords		NA
3.2.6	Cord anchorages and strain relief		NA
	Mass of equipment (kg), pull (N) ..... :		—
	Longitudinal displacement (mm) ..... :		—
3.2.7	Protection against mechanical damage		NA
3.2.8	Cord guards		NA
	Diameter or minor dimension D(mm); test mass(g):		—
	Radius of curvature of cord (mm) ..... :		—
3.2.9	Supply wiring space		NA
3.3	**Wiring terminals for connection of external conductors**		NA
3.3.1	Wiring terminals	No external conductors	NA
3.3.2	Connection of non-detachable power supply cords		NA
3.3.3	Screw terminals		NA
3.3.4	Conductor sizes to be connected		NA
	Rated current (A), cord/cable type, cross-sectional area (mm^2) ..... :		—
3.3.5	Wiring terminal sizes		NA
	Rated current(A), type, nominal thread diameter(mm)		—
3.3.6	Wiring terminal design		NA
3.3.7	Grouping of wiring terminals		NA
3.3.8	Stranded wire		NA
3.4	**Disconnection from the mains supply**		NA
3.4.1	General requirement	No connection to mains supply	NA
3.4.2	Disconnect devices		NA

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Clause	Requirement + Test	Result - Remark	Verdict
3.4.3	Permanently connected equipment		NA
3.4.4	Parts which remain energized		NA
3.4.5	Switches in flexible cords		NA
3.4.6	Number of poles - single-phase and DC equipment		NA
3.4.7	Number of poles - three-phase equipment		NA
3.4.8	Switches as disconnect devices		NA
3.4.9	Plugs as disconnect devices		NA
3.4.10	Interconnected equipment		NA
3.4.11	Multiple power sources		NA
3.5	**Interconnection of equipment**		NA
3.5.1	General requirements	No interconnection	NA
3.5.2	Types of interconnection circuits ..... :		NA
3.5.3	ELV circuits as interconnection circuits		NA
3.5.4	Data ports for additional equipment		NA
4	**PHYSICAL REQUIREMENTS**		NA
4.1	Stability		NA
	Angle of 10°		NA
	Test force (N) ..... :		NA
4.2	**Mechanical strength**		NA
4.2.1	General	No enclosure provided	NA
	Rack-mounted equipment.	Not rack mounted	NA
4.2.2	Steady force test, 10 N		NA
4.2.3	Steady force test, 30 N		NA
4.2.4	Steady force test, 250 N		NA
4.2.5	Impact test		NA
	Fall test		NA
	Swing test		NA
4.2.6	Drop test; height (mm) ..... :		NA
4.2.7	Stress relief test		NA
4.2.8	Cathode ray tubes	None used	NA
	Picture tube separately certified ..... :		NA
4.2.9	High pressure lamps	No high pressure lamps	NA

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Clause	Requirement + Test	Result - Remark	Verdict
4.2.10	Wall or ceiling mounted equipment; force (N) ..... :		NA
4.2.11	Rotating solid media		NA
	Test to cover on the door……..:		NA
4.3	**Design and construction**		NA
4.3.1	Edges and corners		P
4.3.2	Handles and manual controls; force (N) .....:	None provided	NA
4.3.3	Adjustable controls	No adjustable controls	NA
4.3.4	Securing of parts		NA
4.3.5	Connection by plugs and sockets		NA
4.3.6	Direct plug-in equipment		NA
	Torque ..... :		—
	Compliance with the relevant mains plug standard:		NA
4.3.7	Heating elements in earthed equipment	None used	NA
4.3.8	Batteries	None used	NA
	- Overcharging of a rechargeable battery		NA
	- Unintentional charging of a non-rechargeable battery		NA
	- Reverse charging of a rechargeable battery		NA
	- Excessive discharging rate for any battery		NA
4.3.9	Oil and grease	No oil or grease exposure	NA
4.3.10	Dust, powders, liquids and gases	No such exposure	NA
4.3.11	Containers for liquids or gases	No containers used	NA
4.3.12	Flammable liquids ..... :	None used	NA
	Quantity of liquid (l) ..... :		NA
	Flash point (°C) ..... :		NA
4.3.13	Radiation	None emitted	NA
4.3.13.1	General		NA
4.3.13.2	Ionizing radiation	No ionizing radiation	NA
	Measured radiation (pA/kg) ..... :		—
	Measured high-voltage (kV) ..... :		—
	Measured focus voltage (kV) ..... :		—
	CRT markings ..... :		—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet used	NA

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Clause	Requirement + Test	Result - Remark	Verdict
	Part, property, retention after test, flammability classification ..... :		NA
4.3.13.4	Human exposure to ultraviolet (UV) radiation ..... :		NA
4.3.13.5	Lasers (including laser diodes) and LEDs	No lasers used	NA
4.3.13.5.1	Lasers (including laser laser diodes)		NA
	Laser class ..... :		—
4.3.13.5.2	Light emitting diodes (LEDs)		
4.3.13.6	Other types ..... :		NA
4.4	**Protection against hazardous moving parts**		NA
4.4.1	General	No moving parts	NA
4.4.2	Protection in operator access areas ..... :		NA
	Household and home/office document/media shredders		NA
4.4.3	Protection in restricted access locations ..... :		NA
4.4.4	Protection in service access areas		NA
4.4.5	Protection against moving fan blades		NA
4.4.5.1	General		NA
	Not considered to cause pain or injury. a)……:		NA
	Is considered to cause pain, not injury. b) ……:		NA
	Considered to cause injury. c) ……:		NA
4.4.5.2	Protection for users		NA
	Use of symbol or warning ……:		NA
4.4.5.3	Protection for service persons		NA
	Use of symbol or warning ……:		NA
4.5	**Thermal requirements**		P
4.5.1	General		P
4.5.2	Temperature tests		P
	Normal load condition per Annex L ..... :		—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits		NA
4.5.5	Resistance to abnormal heat ..... :		NA
4.6	**Openings in enclosures**		NA
4.6.1	Top and side openings		NA
	Dimensions (mm) ..... :		—

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Clause	Requirement + Test	Result - Remark	Verdict
4.6.2	Bottoms of fire enclosures	No enclosure provided	NA
	Construction of the bottomm, dimensions (mm) .. :		—
4.6.3	Doors or covers in fire enclosures		NA
4.6.4	Openings in transportable equipment		NA
4.6.4.1	Constructional design measures		NA
	Dimensions (mm) ..... :		—
4.6.4.2	Evaluation measures for larger openings		NA
4.6.4.3	Use of metallized parts		NA
4.6.5	Adhesives for constructional purposes		NA
	Conditioning temperature (°C), time (weeks) ..... :		—
4.7	**Resistance to fire**		P
4.7.1	Reducing the risk of ignition and spread of flame		P
	Method 1, selection and application of components wiring and materials		P
	Method 2, application of all of simulated fault condition tests		NA
4.7.2	Conditions for a fire enclosure	To be evaluated in end product	NA
4.7.2.1	Parts requiring a fire enclosure		NA
4.7.2.2	Parts not requiring a fire enclosure		NA
4.7.3	Materials		NA
4.7.3.1	General		NA
4.7.3.2	Materials for fire enclosures		NA
4.7.3.3	Materials for components and other parts outside fire enclosures		NA
4.7.3.4	Materials for components and other parts inside fire enclosures		NA
4.7.3.5	Materials for air filter assemblies		NA
4.7.3.6	Materials used in high-voltage components		NA
5	**ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS**		NA
5.1	**Touch current and protective conductor current**		NA
5.1.1	General	No mains connection or protective conductor used	NA
5.1.2	Configuration of equipment under test (EUT)		NA
5.1.2.1	Single connection to an a.c. mains supply		NA

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Clause	Requirement + Test	Result - Remark	Verdict
5.1.2.2	Redundant multiple connections to an AC mains supply		NA
5.1.2.3	Simultaneous multiple connections to an AC mains supply		NA
5.1.3	Test circuit		NA
5.1.4	Application of measuring instrument		NA
5.1.5	Test procedure		NA
5.1.6	Test measurements		NA
	Supply voltage (V) ..... :		—
	Measured touch current (mA) ..... :		—
	Max. allowed touch current (mA) ..... :		—
	Measured protective conductor current (mA) ..... :		—
	Max. allowed protective conductor current (mA) .. :		—
5.1.7	Equipment with touch current exceeding 3,5 mA		NA
5.1.7.1	General ..... :		NA
5.1.7.2	Simultaneous multiple connections to the supply		NA
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		NA
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		NA
	Supply voltage (V) ..... :		—
	Measured touch current (mA) ..... :		—
	Max. allowed touch current (mA) ..... :		—
5.1.8.2	Summation of touch currents from telecommunication networks		NA
	a) EUT with earthed telecommunication ports ..... :		NA
	b) EUT whose telecommunication ports have no reference to protective earth		NA
5.2	**Electric strength**		NA
5.2.1	General	To be evaluated in end product	NA
5.2.2	Test procedure		NA
5.3	**Abnormal operating and fault conditions**		NA
5.3.1	Protection against overload and abnormal operation	To be evaluated in end product	NA
5.3.2	Motors	None used	NA
5.3.3	Transformers		NA

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Clause	Requirement + Test	Result - Remark	Verdict
5.3.4	Functional insulation ..... :		NA
5.3.5	Electromechanical components		NA
5.3.6	Audio amplifiers in ITE ..... :		NA
5.3.7	Simulation of faults		NA
5.3.8	Unattended equipment		NA
5.3.9	Compliance criteria for abnormal operating and fault conditions		NA
5.3.9.1	During the tests		NA
5.3.9.2	After the tests		NA
6	**CONNECTION TO TELECOMMUNICATION NETWORKS**		NA
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		NA
6.1.1	Protection from hazardous voltages		NA
6.1.2	Separation of the telecommunication network from earth		NA
6.1.2.1	Requirements	No TNV connection	NA
	Supply voltage (V) ..... :		—
	Current in the test circuit (mA) ..... :		—
6.1.2.2	Exclusions ..... :		NA
6.2	**Protection of equipment users from overvoltages on telecommunication networks**		NA
6.2.1	Separation requirements	No connection to TNV	NA
6.2.2	Electric strength test procedure		NA
6.2.2.1	Impulse test		NA
6.2.2.2	Steady-state test		NA
6.2.2.3	Compliance criteria		NA
6.3	**Protection of the telecommunication wiring system from overheating**		NA
	Max. output current (A) ..... :	No TNV connection	—
	Current limiting method ..... :		—
7	**CONNECTION TO CABLE DISTRIBUTION SYSTEMS**		NA
7.1	General	Not for cable distribution system	NA
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		NA
7.3	Protection of equipment users from overvoltages on the cable distribution system		NA

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Clause	Requirement + Test	Result - Remark	Verdict
7.4	Insulation between primary circuits and cable distribution systems		NA
7.4.1	General		NA
7.4.2	Voltage surge test		NA
7.4.3	Impulse test		NA
A	**ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE**		NA
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	No enclosure evaluation	NA
A.1.1	Samples ..... :		—
	Wall thickness (mm)..... :		—
A.1.2	Conditioning of samples; temperature (°C) ..... :		NA
A.1.3	Mounting of samples ..... :		NA
A.1.4	Test flame (see IEC 60695-11-3)		NA
	Flame A, B, C or D ..... :		—
A.1.5	Test procedure		NA
A.1.6	Compliance criteria		NA
	Sample 1 burning time (s)..... :		—
	Sample 2 burning time (s)..... :		—
	Sample 3 burning time (s)..... :		—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		NA
A.2.1	Samples, material ..... :		—
	Wall thickness (mm)..... :		—
A.2.2	Conditioning of samples; temperature (°C) ..... :		NA
A.2.3	Mounting of samples ..... :		NA
A.2.4	Test flame (see IEC 60695-11-4)		NA
	Flame A, B or C ..... :		—
A.2.5	Test procedure		NA
A.2.6	Compliance criteria		NA
	Sample 1 burning time (s)..... :		—
	Sample 2 burning time (s)..... :		—
	Sample 3 burning time (s)..... :		—

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Clause	Requirement + Test	Result - Remark	Verdict
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		NA
	Sample 1 burning time (s)..... :		—
	Sample 2 burning time (s)..... :		—
	Sample 3 burning time (s)..... :		—
A.3	Hot flaming oil test (see 4.6.2)		NA
A.3.1	Mounting of samples		NA
A.3.2	Test procedure		NA
A.3.3	Compliance criterion		NA
B	**ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)**		NA
B.1	General requirements	No motors	NA
	Position ..... :		—
	Manufacturer ..... :		—
	Type ..... :		—
	Rated values ..... :		—
B.2	Test conditions		NA
B.3	Maximum temperatures		NA
B.4	Running overload test		NA
B.5	Locked-rotor overload test		NA
	Test duration (days) ..... :		—
	Electric strength test: test voltage (V) ..... :		—
B.6	Running overload test for DC motors in secondary circuits		NA
B.6.1	General		NA
B.6.2	Test procedure		NA
B.6.3	Alternative test procedure		NA
B.6.4	Electric strength test; test voltage (V) ..... :		NA
B.7	Locked-rotor overload test for DC motors in secondary circuits		NA
B.7.1	General		NA
B.7.2	Test procedure		NA
B.7.3	Alternative test procedure		NA
B.7.4	Electric strength test; test voltage (V) ..... :		NA
B.8	Test for motors with capacitors		NA
B.9	Test for three-phase motors		NA

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Clause	Requirement + Test	Result - Remark	Verdict
B.10	Test for series motors		NA
	Operating voltage (V) ..... :		—
C	**ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)**		NA
	Position ..... :	No transformers used	—
	Manufacturer ..... :		—
	Type ..... :		—
	Rated values ..... :		—
	Method of protection ..... :		—
C.1	Overload test		NA
C.2	Insulation		NA
	Protection from displacement of windings ..... :		NA
D	**ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)**		NA
D.1	Measuring instrument	No touch current tested	NA
D.2	Alternative measuring instrument		NA
E	**ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)**		NA
F	**ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)**		NA
G	**ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES**		NA
G.1	Clearances	Alternative method not used	NA
G.1.1	General		NA
G.1.2	Summary of the procedure for determining minimum clearances		NA
G.2	Determination of mains transient voltage (V)		NA
G.2.1	AC mains supply ..... :		NA
G.2.2	Earthed DC mains supplies ..... :		NA
G.2.3	Unearthed DC mains supplies ..... :		NA
G.2.4	Battery operation ..... :		NA
G.3	Determination of telecommunication network transient voltage (V) ..... :		NA
G.4	Determination of required withstand voltage (V)		NA
G.4.1	Mains transients and internal repetitive peaks .... :		NA
G.4.2	Transients from telecommunication networks ..... :		NA

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Clause	Requirement + Test	Result - Remark	Verdict
G.4.3	Combination of transients		NA
G.4.4	Transients from cable distribution systems		NA
G.5	Measurement of transient voltages (V)		NA
	a) Transients from a mains supply		NA
	For an AC mains supply		NA
	For a DC mains supply		NA
	b) Transients from a telecommunication network		NA
G.6	Determination of minimum clearances ..... :		NA
H	**ANNEX H, IONIZING RADIATION (see 4.3.13)**		NA
J	**ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)**		NA
	Metal(s) used ..... :		—
K	**ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)**		NA
K.1	Making and breaking capacity	No thermal controls	NA
K.2	Thermostat reliability; operating voltage (V) ..... :		NA
K.3	Thermostat endurance test; operating voltage(V) :		NA
K.4	Temperature limiter endurance; operating voltage(V):		NA
K.5	Thermal cut-out reliability		NA
K.6	Stability of operation		NA
L	**ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)**		NA
L.1	Typewriters	Not such a device	NA
L.2	Adding machines and cash registers		NA
L.3	Erasers		NA
L.4	Pencil sharpeners		NA
L.5	Duplicators and copy machines		NA
L.6	Motor-operated files		NA
L.7	Other business equipment		NA
M	**ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)**		NA
M.1	Introduction	No TNV connections	NA
M.2	Method A		NA
M.3	Method B		NA
M.3.1	Ringing signal		NA

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Clause	Requirement + Test	Result - Remark	Verdict
M.3.1.1	Frequency (Hz) ..... :		—
M.3.1.2	Voltage (V) ..... :		—
M.3.1.3	Cadence; time (s), voltage (V) ..... :		—
M.3.1.4	Single fault current (mA) ..... :		—
M.3.2	Tripping device and monitoring voltage ..... :		NA
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		NA
M.3.2.2	Tripping device		NA
M.3.2.3	Monitoring voltage (V) ..... :		NA
N	**ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)**		NA
N.1	ITU-T impulse test generators	No impulses generated	NA
N.2	IEC 60065 impulse test generator		NA
P	**ANNEX P, NORMATIVE REFERENCES**		—
Q	**ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)**		NA
	a) Preferred climatic categories ..... :	NOT USED	NA
	b) Maximum continuous voltage ..... :		NA
	c) Pulse current ..... :		NA
R	**ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMS**		NA
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	Not relied upon	NA
R.2	Reduced clearances (see 2.10.3)		NA
S	**ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)**		NA
S.1	Test equipment		NA
S.2	Test procedure		NA
S.3	Examples of waveforms during impulse testing		NA
T	**ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)**		NA
		See separate test report	—
U	**ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)**		NA
		Not used	—

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Clause	Requirement + Test	Result - Remark	Verdict
V	**ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)**		NA
V.1	Introduction	Not for power distribution systems	NA
V.2	TN power distribution systems		NA
W	**ANNEX W, SUMMATION OF TOUCH CURRENTS**		NA
W.1	Touch current from electronic circuits	No touch currents in systems	NA
W.1.1	Floating circuits		NA
W.1.2	Earthed circuits		NA
W.2	Interconnection of several equipments		NA
W.2.1	Isolation		NA
W.2.2	Common return, isolated from earth		NA
W.2.3	Common return, connected to protective earth		NA
X	**ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)**		NA
X.1	Determination of maximum input current	No transformers	NA
X.2	Overload test procedure		NA
Y	**ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)**		NA
Y.1	Test apparatus ..... :	No ultraviolet used	NA
Y.2	Mounting of test samples ..... :		NA
Y.3	Carbon-arc light-exposure apparatus ..... :		NA
Y.4	Xenon-arc light exposure apparatus ..... :		NA
Z	**ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)**		NA
AA	**ANNEX AA, MANDREL TEST (see 2.10.5.8)**		NA
BB	**ANNEX BB, CHANGES IN THE SECOND EDITION**		—
CC	**ANNEX CC, Evaluation of integrated circuit (IC) current limiters**		NA
CC.1	General	None used	NA
CC.2	Test program 1……:		NA
CC.3	Test program 2……:		NA
DD	**ANNEX DD, Requirements for the mounting means of rack-mounted equipment**		NA
DD.1	General	Not rack mounted	NA
DD.2	Mechanical strength test, variable N……..:		NA
DD.3	Mechanical strength test, 250N, including end stops:		NA

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Clause	Requirement + Test	Result - Remark	Verdict
DD.4	Compliance……:		NA
EE	**ANNEX EE, Household and home/office document/media shredders**		NA
EE.1	General	Not such a device	NA
EE.2	Markings and instructions		NA
	Use of markings or symbols……:		NA
	Information of user instructions, maintenance and/or servicing instructions……:		NA
EE.3	Inadvertent reactivation test……:		NA
EE.4	Disconnection of power to hazardous moving parts:		NA
	Use of markings or symbols……:		NA
EE.5	Protection against hazardous moving parts		NA
	Test with test finger (Figure 2A) ……:		NA
	Test with wedge probe (Figure EE1 and EE2) ……:		NA

1.5.1	**TABLE: List of critical components**				P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity[1])
- Description:					
PCB	Various	Various	Flammability rating minimum 94V-1	UL94	UL
Supplementary information: [1)] Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

1.5.1	**TABLE: Opto Electronic Devices**	NA
Manufacturer.....:		
Type .....:		
Separately tested .....:		
Bridging insulation.....:		
External creepage distance .....:		
Internal creepage distance .....:		
Distance through insulation .....:		
Tested under the following conditions .....:		
Input .....:		
Output .....:		
supplementary information		

1.6.2	**TABLE: Electrical data (in normal conditions)**					NA
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
Supplementary information:						

2.1.1.5 c) 1)	**TABLE: max. V, A, VA test**	NA

Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
supplementary information:				

2.1.1.5 c) 2)	**TABLE: stored energy**	NA

Capacitance C (µF)	Voltage U (V)	Energy E (J)
supplementary information:		

2.2	**TABLE: evaluation of voltage limiting components in SELV circuits**	NA

Component (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Components
	V peak	V DC	

Fault test performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V DC)
supplementary information:	

2.5	**TABLE: limited power sources**	NA

Circuit output tested:				
Measured Uoc (V) with all load circuits disconnected:				
	I_{sc} (A)		VA	
	Meas.	Limit	Meas.	Limit
Normal condition				
Single fault: …..				
Single fault: …..				
Single fault: …..				
supplementary information:				
Sc=Short circuit, Oc=Open circuit				

2.10.2	**Table: working voltage measurement**	NA

Location	RMS voltage (V)	Peak voltage (V)	Comments
supplementary information:			

2.10.3 and 2.10.4	**TABLE: Clearance and creepage distance measurements**					NA
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Functional:						
Basic/supplementary:						
Reinforced:						
Supplementary information:						

2.10.5	**TABLE: Distance through insulation measurements**				NA
Distance through insulation (DTI) at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)
Supplementary information:					

4.3.8	**TABLE: Batteries**	NA
The tests of 4.3.8 are applicable only when appropriate battery data is not available		
Is it possible to install the battery in a reverse polarity position?		

	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Unintentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition									
Max. current during fault condition									

Test results:		Verdict
- Chemical leaks		
- Explosion of the battery		
- Emission of flame or expulsion of molten metal		
- Electric strength tests of equipment after completion of tests		
Supplementary information:		

4.3.8	**TABLE: Batteries**	NA

Battery category .....: (Lithium, NiMh, NiCad, Lithium Ion …)
Manufacturer.....:
Type / model.....:
Voltage.....:
Capacity.....: mAh
Tested and Certified by (incl. Ref. No.) .....:
Circuit protection diagram:

MARKINGS AND INSTRUCTIONS (1.7.12, 1.7.15)	
Location of replaceable battery	
Language(s) ……..:	
Close to the battery ……..:	
In the servicing instructions……:	
In the operating instructions ……..:	

4.5	**TABLE: Thermal requirements**						NA
	Supply voltage (V) .....:						—
	Ambient T_{min} (°C) .....:						—
	Ambient T_{max} (°C) .....:						—
Maximum measured temperature T of part/at::		T (°C)					Allowed T_{max}(°C)

Supplementary information: Test data provided in attachment section from testing dated January 26, 2010.

Temperature T of winding:	t_1 (°C)	R_1 (Ω)	t_2 (°C)	R_2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class

Supplementary information:

4.5.5	**TABLE: Ball pressure test of thermoplastic parts**		NA
	Allowed impression diameter (mm) ..... :	≤ 2 mm	—

Part	Test temperature (°C)	Impression diameter (mm)

Supplementary information:

4.7	**TABLE: Resistance to fire**				NA
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence

Supplementary information:

5.1	**TABLE: touch current measurement**	NA

Measured between:	Measured (mA)	Limit (mA)	Comments/conditions
supplementary information:			

5.2	**TABLE: Electric strength tests, impulse tests and voltage surge tests**	NA

Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Functional:			
Basic/supplementary:			
Reinforced:			
Supplementary information:			

5.3	**TABLE: Fault condition tests**		NA
	Ambient temperature (°C) ..... :		—
	Power source for EUT: Manufacturer, model/type, output rating ..... :		—

Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Supplementary information:						

C.2	TABLE: transformers						NA
Loc.	Tested insulation	Working voltage peak / V (2.10.2)	Working voltage rms / V (2.10.2)	Required electric strength (5.2)	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	Required distance thr. insul. (2.10.5)
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
supplementary information:							

C.2	TABLE: transformers	NA
Transformer		

List of test equipment used: NA

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date
-	-	-	-	-

EN 60950-1		
Clause	Requirement + Test	Verdict

EN 60950-1:2006 – CENELEC COMMON MODIFICATIONS		
Contents	Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions Annex ZC (informative) A-deviations	NA
General	Delete all the “country” notes in the reference document according to the following list: 1.4.8 Note 2 — 1.5.1 Note 2 & 3 — 1.5.7.1 Note 1.5.8 Note 2 — 1.5.9.4 Note — 1.7.2.1 Note 4, 5 & 6 2.2.3 Note — 2.2.4 Note — 2.3.2 Note 2.3.2.1 Note 2 — 2.3.4 Note 2 — 2.6.3.3 Note 2 & 3 2.7.1 Note — 2.10.3.2 Note 2 — 2.10.5.13 Note 3 3.2.1.1 Note — 3.2.4 Note 3. — 2.5.1 Note 2 4.3.6 Note 1 & 2 — 4.7 Note 4 — 4.7.2.2 Note 4.7.3.1 Note 2 — 5.1.7.1 Note 3 & 4 — 5.3.7 Note 1 6 Note 2 & 5 — 6.1.2.1 Note 2 — 6.1.2.2 Note 6.2.2 Note 6. — 2.2.1 Note 2 — 6.2.2.2 Note 7.1 Note 3 — 7.2 Note — 7.3 Note 1 & 2 G.2.1 Note 2 — Annex H Note 2	NA
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for “one package equipment”, and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	NA
1.5.1	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC	NA
1.7.2.1	Add the following NOTE: NOTE Z1 In addition, the instructions shall include, as far as applicable, a warning that excessive sound pressure from earphones and headphones can cause hearing loss	NA

EN 60950-1		
Clause	Requirement + Test	Verdict
2.7.1	Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits and earth faults in primary circuits, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for pluggable equipment Type B or permanently connected equipment, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment Type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	NA
2.7.2	This subclause has been declared 'void'.	NA
3.2.3	Delete the note in Table 3A, and delete also in this table the conduit sizes in parentheses.	NA
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following: | Up to and including 6 | 0,75 [a)] | Over 6 up to and including 10 | | (0,75) [b)] 1,0 | Over 10 up to and including 16 | (1,0) [c)] 1,5 | In the conditions applicable to Table 3B delete the words "in some countries" in condition [a)]. In NOTE 1, applicable to Table 3B, delete the second sentence.	NA
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: | Over 10 up to and including 16 | 1,5 to 2,5 | 1,5 to 4 | Delete the fifth line: conductor sizes for 13 to 16A.	NA
4.3.13.6	Add the following NOTE: NOTE Z1 Attention is drawn to 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz. Standards taking into account this Recommendation which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	NA
Annex H	Replace the last paragraph of this annex by: At any point 10cm from the surface of the operator access area, the dose rate shall not exceed 1µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level. Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	NA
Bibliography	Additional EN standards.	—

EN 60950-1		
Clause	Requirement + Test	Verdict
ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS	—
ZB	SPECIAL NATIONAL CONDITIONS	NA
1.2.4.1	In **Denmark**, certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	NA
1.5.7.1	In **Finland**, **Norway** and **Sweden**, resistors bridging basic insulation in Class I pluggable equipment Type A must comply with the requirements in 1.5.7.2.	NA
1.5.8	In **Norway**, due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	NA
1.5.9.4	In **Finland**, **Norway** and **Sweden**, the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	NA
1.7.2.1	In **Finland**, **Norway** and **Sweden**, Class I pluggable equipment Type A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan" In Norway: “Apparatet må tilkoples jordet stikkontakt” In Sweden: “Apparaten skall anslutas till jordat uttag”	NA
1.7.5	In **Denmark**, socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For stationary equipment the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.	NA
2.2.4	In **Norway**, for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	NA
2.3.2	In **Finland**, **Norway** and **Sweden** there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	NA
2.3.4	In **Norway**, for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	NA
2.6.3.3	In the **United Kingdom**, the current rating of the circuit shall be taken as 13A, not 16A.	NA
2.7.1	In the **United Kingdom**, to protect against excessive currents and short-circuits in the primary circuit of direct plug-in equipment, tests according to 5.3 shall be conducted, using an external protective device rated 30A or 32A. If these tests fail, suitable protective devices shall be included as integral parts of the direct plug-in equipment, so that the requirements of 5.3 are met.	NA
2.10.5.13	In **Finland**, **Norway** and **Sweden**, there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	NA

EN 60950-1		
Clause	Requirement + Test	Verdict
3.2.1.1	In **Switzerland**, supply cords of equipment having a rated current not exceeding 10A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998: SEV 5932-2.1998 Plug Type 25 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998 Plug Type 21 L+N 250 V, 16 A SEV 5934-2.1998 Plug Type 23 L+N+PE 250 V, 16 A	NA
3.2.1.1	In **Denmark**, supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. Class I equipment provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a rated current exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.	NA
3.2.1.1	In **Spain**, supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994. Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993. Class I equipment provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994. If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	NA
3.2.1.1	In the **United Kingdom**, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	NA
3.2.1.1	In **Ireland**, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.	NA
3.2.4	In **Switzerland**, for requirements see 3.2.1.1 of this annex.	NA
3.2.5.1	In the **United Kingdom**, a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.	NA

EN 60950-1		
Clause	Requirement + Test	Verdict
3.3.4	In the **United Kingdom**, the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current of over 10A up to and including 13A is: • 1,25 mm^2 to 1,5 mm^2 nominal cross-sectional area.	NA
4.3.6	In the **United Kingdom**, the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	NA
4.3.6	In **Ireland**, direct plug-in equipment is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	NA
5.1.7.1	In **Finland**, **Norway** and **Sweden** touch current measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that ○ is intended to be used in a restricted access location where equipotential bonding has been applied, for example, in a telecommunication centre; and ○ has provision for a permanently connected protective earthing conductor ○ is provided with instructions for the installation of that conductor by a service person; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.	NA

EN 60950-1		
Clause	Requirement + Test	Verdict
6.1.2.1	In **Finland**, **Norway** and **Sweden**, add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition - passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and - is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV. It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2. A capacitor classified Y3 according to EN 132400:1994, may bridge this insulation under the following conditions: - the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 132400, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1; - the additional testing shall be performed on all the test specimens as described in EN 132400; - the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400, in the sequence of tests as described in EN 132400.	NA
6.1.2.2	In **Finland**, **Norway** and **Sweden**, the exclusions are applicable for permanently connected equipment, pluggable equipment Type B and equipment intended to be used in a restricted access location where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected protective earthing conductor and is provided with instructions for the installation of that conductor by a service person.	NA
7.2	In **Finland**, **Norway** and **Sweden**, for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	NA
7.3	In **Norway** and **Sweden**, there are many buildings where the screen of the coaxial cable is normally not connected to the earth in the building installation.	NA
7.3	In **Norway**, for installation conditions see EN 60728-11:2005.	NA
ZC	A-DEVIATIONS (informative)	NA
1.5.1	**Sweden** (Ordinance 1990:944) Add the following: NOTE In Sweden, switches containing mercury are not permitted.	NA

EN 60950-1		
Clause	Requirement + Test	Verdict
1.5.1	**Switzerland** (Ordinance on environmentally hazardous substances SR 814.081, Annex 1.7, Mercury - Annex 1.7 of SR 814.81 applies for mercury.) Add the following: NOTE In Switzerland, switches containing mercury such as thermostats, relays and level controllers are not allowed.	NA
1.7.2.1	**Denmark** (Heavy Current Regulations) Supply cords of Class I equipment, which is delivered without a plug, must be provided with a visible tag with the following text: Vigtigt! Lederen med grøn/gul isolation må kun tilsluttes en klemme mærket  eller  If essential for the safety of the equipment, the tag must in addition be provided with a diagram, which shows the connection of the other conductors, or be provided with the following text: "For tilslutning af de øvrige ledere, se medfølgende installationsvejledning."	NA
1.7.2.1	**Germany** (Gesetz über technische Arbeitsmittel und Verbraucherprodukte (Geräte- und Produktsicherheitsgesetz – GPSG) [Law on technical labour equipment and consumer products], of 6th January 2004, Section 2, Article 4, Clause (4), Item 2). If for the assurance of safety and health certain rules during use, amending or maintenance of a technical labour equipment or readymade consumer product are to be followed, a manual in German language has to be delivered when placing the product on the market. Of this requirement, rules for use even only by service persons are not exempted.	NA
1.7.5	**Denmark** (Heavy Current Regulations) With the exception of Class II equipment provided with a socket outlet in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-4a, Class II equipment shall not be fitted with socket-outlets for providing power to other equipment.	NA
1.7.13	**Switzerland** (Ordinance on chemical hazardous risk reduction SR 814.81, Annex 2.15 Batteries) Annex 2.15 of SR 814.81 applies for batteries.	NA
5.1.7.1	**Denmark** (Heavy Current Regulations, Chapter 707, clause 707.4) Touch current measurement results exceeding 3,5 mA r.m.s. are permitted only for permanently connected equipment and pluggable equipment Type B.	NA

ATTACHMENTS

PRODUCT SAFETY SERVICES

CE Safety Compliance Report
For
Summit Data Communications
Model
SDC-PE15N
In accordance with
EN 60950-1:2001 + A11:2004
Safety of information technology equipment,

CLIENT: Summit Data Communications
526 South Main St
Akron, OH
USA

REPORT DATE: January 26, 2010

COMPLIANCE ENGINEER: Roberto Pasos

TECHNICAL REVIEWER: Noel Lovato

	Test equipment list				
Item	Type	Equipment No.	Calibration date		Comments
			Last[1]	Due	
Agilent	Temp Reader	02110	04/01/09	04/01/10	
Agilent	Mux Card	02165	04/01/09	04/01/10	

1) or interval between calibrations

Tests

	TABLE: temperature tests			P
	Test conditions	Normal Full Load		
	Frequency (Hz)	:	N/A	—
	Duration (h, min)	:	4 hours	—
	Voltage (V)	:	2.2VDC	—
	Ambient temperature Ta (°C)	:	21.7	—
	Measurements: 1 - part; 2 - measured temperature (Tm (°C)); 3 – comments			

1	2	3
Transmitter	52.2	Pass
PWB	46.3	Pass
U15	51.9	Pass
Note:		

PHOTOGRAPHS

Photo 1

Photo 1: Overall front view of system.

Photo 2

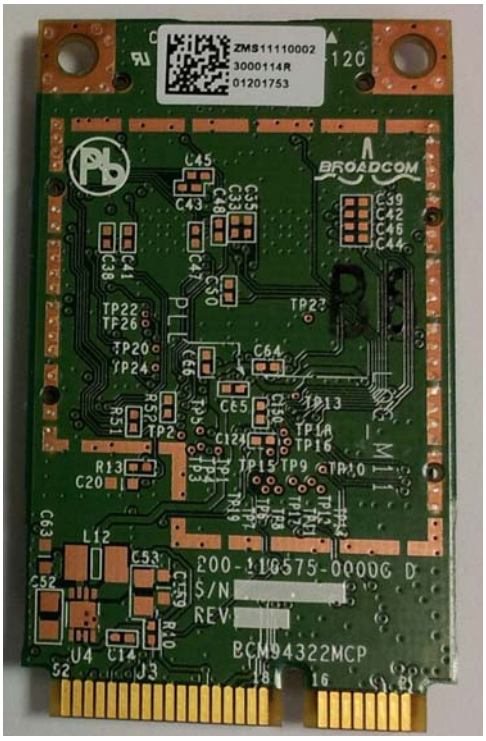


Photo 2: Overall rear view of system.

AGENCY APPROVAL LICENSES AND COMPONENT SPECIFICATIONS

Component	No. of Pages
	N/A

INSTALLATION INSTRUCTIONS

Hardware Integration Guide

SDC-PE15N

version 1.08

Summit Data Communications, Inc., 526 South Main Street Suite 805 Akron, OH 44311
Tel: 866-434-4300 www.summitdatacom.com

SCHEMATIC DIAGRAMS AND SPECS

SMT-WPEB-109N_schem_v03 was provided for review at time of evaluation

APPENDICES

APPENDIX A - CE MARK REQUIREMENTS

The amendments of Directive 93/68/EEC contain clear instructions on the use of the CE marking. Application of the CE marking indicates compliance with all applicable product Directives. During the transition period associated with many Directives, a manufacturer may find itself complying with some EC Directives, but on others, complying with pre-existing national laws. In this case, the documentation supplied with the equipment must make the basis on which conformity is declared clear by listing the Directives for which the CE marking signifies compliance.

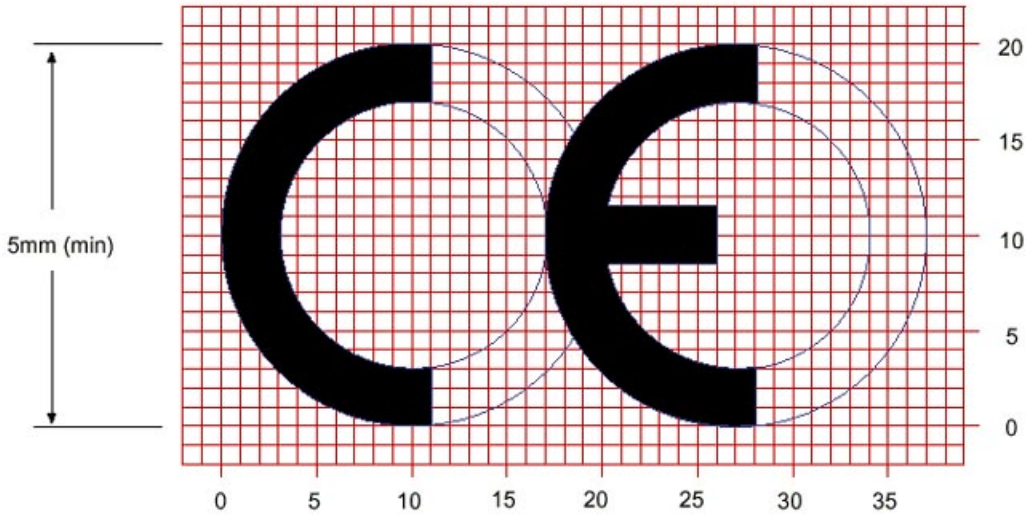
The format of the mark is regulated. The letters "CE" are drawn from two circles, laid out according to Figure 1. The vertical size may not be less than 5 mm. Normally, the mark will be placed in a visible spot on the outside of the equipment, but in cases where that is impractical, it may be included on the packaging and/or documentation.

It is important to note, that in addition to the mark itself, some Directives require that additional information accompany the mark or the Declaration of Conformity. Depending on the quality assurance module chosen, the identification number of the notified body responsible for EC surveillance of the quality system may have to be added.

The Low Voltage Directive, amended, does not require that the mark be accompanied by any additional information. However, the declaration of conformity must include the following items:

- name and address of party responsible for conformity
- description of the electrical equipment
- reference to the harmonized standards used
- where appropriate, reference to specifications with which conformity is claimed
- last two digits of the year in which the CE marking was affixed

Figure 1 - CE Mark Diagram:



APPENDIX B - SAMPLE DECLARATION OF CONFORMITY

Declaration of Conformity

Manufacturer's Name:	Summit Data Communications	
Manufacturer's Address:	526 South Main St, Suite 805 Akron, OH 44311	
Application of Council Directives:	Low Voltage	- 2006/95/EC
	EMC	- 2004/108/EC
Standard(s):	Safety	- EN 60950-1:2006
	EMC	-
Product Name(s):	*SDC-PE15N*	
Product Model Number(s):	SDC-PE15N	
Year in which conformity is declared:	2012	

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Location: _____ Signature: _____

Date: _____ Full Name: _____

Position: _____

APPENDIX C - SAMPLE RESOLUTION OF NON-COMPLIANCES

Resolution of Non-Compliances

Item No./Letter Date	***Method of Correction***
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

The equipment, with the non-compliances corrected as indicated above, meets the applicable requirements of the standard.

Non-compliances verified by:_____
Print

Signature _____ Date _____

END OF REPORT