

■ Datasheet: UPS GENIO Flex Plus Dual



USVSD

1:1 1100 - 3000 VA



LINE
INTERACTIVE



Tower /
Rack



ECO
LEVEL



USB
plug



Hot swap
battery



Energy
share



Plug & Play
installation



SOHO



DATACENTER

■ SCHRACK-INFO

GENIO Flex Plus Dual range (tower and rack), includes models from 1100 VA to 3000 VA with sinusoidal digital technology. The GENIO Flex Plus Dual range, with its advanced communications and connectivity options, is the ideal solution for installations requiring superior protection and versatility in the power supply system. GENIO Flex Plus Dual is the ideal solution for the protection of peripheral network devices, conventional or rack servers, and network back-up systems. GENIO Flex Plus Dual has a practical, modern design and includes several performance advantages over traditional on-line UPS. The UPS provides efficiency levels of 98% and therefore reduced energy consumption. It has an output power factor of 0.9.

■ Superior protection

The automatic voltage regulator (AVR) provides protection from surges, overvoltages and undervoltages, without battery intervention. Reduced battery usage ensures that the battery set is 100% available for mains power supply failures and is able to provide greater autonomy. EMI filters then provide further protection from voltage surges and transients. When the mains power supply fails, the load is powered by the inverter and receives a perfectly

sinusoidal supply for maximum power continuity and reliability.

■ High availability

An EnergyShare socket allows loadshedding and the shutdown of less sensitive peripheral devices to extend battery runtime for critical loads. "Hot Swap" batteries can be removed via the front panel for easy and safe UPS maintenance. For business continuity applications requiring long battery runtimes, battery autonomy can be extended up to several hours using ER models (versions 2200 and 3000) fitted with more powerful battery chargers. Battery test facility to detect deteriorating battery performance. Deep discharge protection to reduce battery ageing.

■ Versatility

GENIO Flex Plus Dual can be installed as a tower or in 19" rack cabinets. The display panel can be easily removed and rotated to suit the type of installation required. Vision Dual is equipped with an emergency power off (EPO) contact that allows for remote shutdown in emergency situations. Cold Start function to allow the UPS to power up with no mains power supply present. GENIO Flex Plus Dual models have a backlit LCD display providing UPS status information, load and battery performance.

Advanced Communications

- Advanced multi-platform communications for all operating systems and network environments: UPSMon monitoring and shutdown software, which can be downloaded for free at www.ups-technet.com, with SNMP agent, for Windows operating systems 7, 2008, Vista, 2003, XP, Mac

OS X, Sun Solaris, Linux, VMW are ESX and other Unix operating systems

- USB or RS232 serial port interface (selectable)
- Expansion slot for SNMP agent interface boards
- Status, measurements, alarms and input, output and battery parameters available on LCD display.

Configuration possibilities



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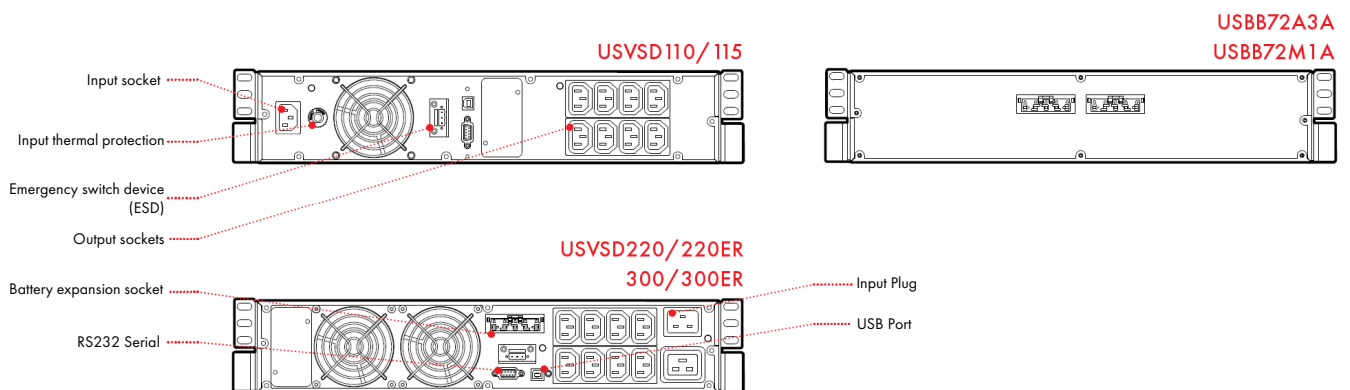
1. Remove the display panel

2. Rotate the display panel and insert it into position

3. Rotate the UPS by 90°

4. Attach the rack supports

Details



Models

MODELS	USVSD110	USVSD150	USVSD220	USVSD220ER	USVSD300	USVSD300ER
POWER	1100 VA / 990W	1500 VA / 1350W	2200 VA / 1980W	2200 VA / 1760W	3000 VA / 2700W	3000 VA / 2400W
INPUT						
Nominal Voltage	220-230-240 Vac					
Voltage range without battery intervention	162 Vac < V _{in} < 290 Vac					
Maximum permitted voltage	300 V					
Nominal frequency	50 or 60 Hz ± 5 Hz					
Frequency range	50 Hz ± 5 % / 60 Hz ± 5 %					
Power factor	> 0,98					
Current distortion	≤ 7 %					
OUTPUT						
Voltage distortion with linear load / with non-linear load	< 3 % / < 8 %					
Frequency	Selectable: 50 Hz or 60 Hz or self-learning					
Waveform	Sinusoidal					
Current crest factor	2,5 : 1					
Efficiency (ECO and Smart Active Modes)	98,5 %					
BATTERIES						
Type	VRLA AGM maintenance-free lead based					
Recharge time	2-4 hours					
OVERLOAD TIMES						
100 % < Load < 110 %	5 minutes					
110% < Load < 150%	10 seconds					
Load > 150 %	1 second					
OTHER FEATURES						
Net weight (kg)	16.5	17.5	28	15.5	31.5	16.5
Gross weight (kg)	20	21	33	20.5	36.5	21.5
Dimensions (WxDxH) (mm)	87 x 450 x 425 (2U x 19" x 425)			87 x 450 x 625 (2U x 19" x 625)		
Packaged dimensions (WxDxH) (mm)	240 x 500 x 600			240 x 600 x 760		
Protection against overvoltages	300 Joule					
Protections	Overcurrent - short-circuit - overvoltage - undervoltage - temperature - excessive low battery					
Communications	USB/DB9 with RS232 and contacts / Slot for communications interface					
Input plugs	1 IEC 320 C14			1 IEC 320 C20		
Output sockets	8 IEC 320 C13			8 IEC 320 C13 + 1 IEC 320 C19		
Standards	Safety: EN 62040-1 and Directive 2006/95/EL; EMC: EN 62040-2 category C2 and Directives 2004/108/EL					
Operating temperature	0 °C / +40 °C					
Relative humidity	< 95 % non-condensing					
Colour	Black					
Noise level at 1 m	< 40 dBA					
Standard equipment provided	Power cable, serial cable, USB cable, safety manual, quick start guide, user manual on CD-ROM					

Overview autonomy times with external battery boxes

Order no	max. apparent power [VA]	max. active power [W]	Autonomy time [Min.]	
			Typical load*	Full load**
USVSD110	1100	990	11	5
USVSD150	1500	1350	9	4
USVSD220	2200	1980	12	5
USVSD220 + USBB72A3A	2200	1980	30	17
USVSD220 + USBB72M1A	2200	1980	55	29
USVSD220 + 2 USBB72M1A	2200	1980	108	58
USVSD220ER + USBB72B1 (tower)	2200	1760	105	61
		with load 1000VA 700W:	273	182
		with load 1500VA 1000W:	170	116
USVSD300	3000	2700	10	5
USVSD300 + USBB72A3A	3000	2700	27	14
USVSD300 + USBB72M1A	3000	2700	48	24
USVSD300 + 2 USBB72M1A	3000	2700	83	50
USVSD300 + 3 USBB72M1A	3000	2700	116	71
USVSD300ER + USBB72B1 (tower)	3000	2400	77	46
USVSD300ER + 2 USBB72B1 (tower)	3000	2400	178	99

* typical load: autonomy time calculated with 75% load with Power Factor 0.66

** full load: autonomy time calculated with 100% load with Power Factor 0.8

DESCRIPTION	ORDER NO.
GENIO Flex Plus Dual (Tower and 19" rackmount)	
1100VA / 990W / full load: 5min. / typical load: 12min.	USVSD110
1500VA / 1350W / full load: 4min. / typical load: 10min.	USVSD150
2200VA / 1980W / full load: 5min. / typical load: 12min.	USVSD220
2200VA / 1760W / 0min. / 8A charger	USVSD220ER
3000VA / 2700W / full load: 5min. / typical load: 10min.	USVSD300
3000VA / 2400W / 0min. / 8A charger	USVSD300ER
Battery boxes	
For USPRD.. / USVSD.. from 2,2kVA 72V 7Ah without charger / tower & rack mounting	USBB72A3A
For USPRD.. / USVSD.. from 2,2kVA 72V 14Ah without charger / tower & rack mounting	USBB72M1A
For USPRP...ER and USVSD...ER 40Ah without charger / tower mounting	USBB72B1
Accessoires	
Universal rack mount slide for UPS	USRACKGUID
US Netman 101 Plus, external box TCP/IP	USNETMA101
US Netman 102 Plus, plug in board TCP/IP	USNETMA102
US Netman 202 Plus, plug in board TCP/IP (SNMP V3)	USNETMA202
J-Bus/ModBUS UPS interface via RS232/RS485min. / typical load: boxed version	USMULTI301
J-Bus/ModBUS UPS interface via RS232/RS485min. / typical load: plug in card	USMULTI302
Plug in board for UPS alarm and status indication with potential free contacts	USMULTI382
Profibus UPS interface (DP-V1, Profidrive V2 PPO5)min. / typical load: boxed version	USMULTI401
Interface 8 inp. 8 outp. (programmable), Modbusmin. / typical load: boxed version	USMULTIIOB
UPS cable kit for AS400	USAS400KIT
GPRS modem for UPS management via GSM-mobile phone network	USRTG100
Remote supervision panel for UPS with graphic display and RS232	USMULTIPAN
Maintenance bypass 16A (upto 3kVA UPS) - rack mounting	USBYMR
PDU for UPS, 3 Outlets Schuko, 10A, 1.5m cable	Q7533060