

UPS

Pulsar Extreme

2000/3000 VA

On-line double conversion UPS,
tower or rack format

Comprehensive protection

- ▶ On-line double conversion technology.

High availability

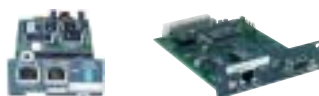
- ▶ The UPS + Battery Module can be unplugged and replaced without disconnecting the power supply to the connected items of equipment ('Hot Swap' versions with maintenance bypass).
- ▶ Wide input voltage tolerance, reducing the number of changeovers to battery power.
- ▶ Automatic bypass device in the event of an overload or fault.
- ▶ Redundancy provided by the Pulsar STS Source Transfer System (optional).

Ease and flexibility of connection

- ▶ 'Plug-and-play' versions with integral multi-socket connector (the 'Fault-Tolerant' and 'Hot Swap' versions are available with various connector configurations).
- ▶ Versions for connection to terminal boards to facilitate electrical power distribution upstream of the UPS ('Install' version).

Supervision

- ▶ Numerous supervision options: SNMP, Web, backup Web (SSL), JBus / ModBus, contacts or remote display panel.
- ▶ NMS integration: HP OpenView, IBM Tivoli Netview, CA Unicenter, etc.
- ▶ Shutdown of multiple servers (Solution-Pac software supplied).



accommodated in confined spaces

- ▶ Tower versions: ultra-compact format.
- ▶ Rack versions: short depth for compatibility with 600 mm racks (4U high).
- ▶ Connection accessories for racks (optional 0U/1U Pulsar PDU rack-mounted sockets).

Extended-endurance solutions

- ▶ EXB battery extension units.
- ▶ CLA version with Extended-Endurance Charger for customised battery solutions.

Types of sockets and standards



USE (FR) DIN BS IEC Australia

Top-of-the-range protection, ideal for:

- ▶ Tower servers
- ▶ Workstations
- ▶ Network devices, VOIP and telecoms installed in short-depth racks



Compact protection for your corporate IT system.

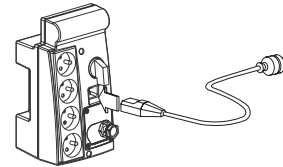
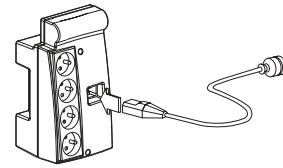
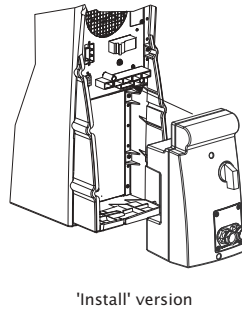
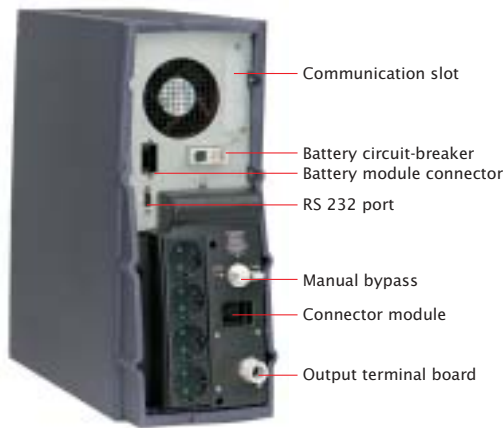


Major advantages for the protection of telecoms applications: installation in short-depth racks and Hot Swap function.

THE UNINTERRUPTIBLE POWER PROVIDER

MGE
UPS SYSTEMS

Pulsar Extreme Hot Swap version



Associated communication

Solution-Pac software suite supplied on CD with each unit

To control the protected servers (clean shutdown) and for remote or local supervision of the UPS.

Management-Pac 2 software suite on CD

NMS integration kit: HP Openview, IBM Tivoli Netview, CA Unicenter, etc.

SNMP/Web network card

To connect the UPS to the Ethernet 10/100 network, to relay SNMP warnings and to supervise the UPS via a single Web interface.

Environment Sensor for the SNMP/Web card

SNMP and Web monitoring of Temperature & Humidity & the status of 2 contacts.

JBus/ModBus card

To connect the UPS to a building management system.

Status information card

To relay the status of the UPS in the form of potential-free contacts plus emergency stop.

Remote LCD display panel for UPS control

To locate the interface up to 25 metres away from the UPS and to display its parameters.

MGE PowerServices™

2-year warranty, including batteries.

Standard exchange of the product, including the batteries, if it proves to be defective.

Service range ⁽¹⁾

- ▶ Warranty+: warranty extension up to 3 years. Start Up+: On-site UPS commissioning.
- ▶ Warranty+ Silver includes Warranty+ and Start Up+.
- ▶ Warranty+ Gold includes Warranty+, Start Up+ and 3 maintenance visits.
- ▶ Teleservice.

1: Depending on the country, visit www.mgeups.com/services.

Technical characteristics

	2000	3000
Available formats	Tower and 4U Rack	Tower and 4U Rack
Performance characteristics		
Technology	On-Line double conversion with bypass	
Power output, VA/W	2000 VA / 1330 W	3000 VA / 2000 W
Input voltage range	84/120/160 V(*) to 265 V (* at 50/66/100 % charge)	
Power factor	Correction of the power factor (>0.95), THDI < 5 %	
Frequency	50/60 Hz, auto-selection	
Output voltage / frequency	230V, adjustable to 200/208/220/230/240 V, 50/60 Hz	
Overload capacity	110 %: continuous, 130 %: 60 seconds then changeover to bypass, 130 % to 160 %: 10 seconds then changeover to bypass, 160 to 250 %: 1 second then changeover to bypass	
Bypass	Maintenance bypass + automatic bypass on Hot Swap and Install versions, automatic bypass on Fault-Tolerant version	
Battery test	Automatic weekly test (periodicity adjustable via the UPS Driver software supplied)	
Battery mode	Startup possible without mains supply, protection against total discharge	
Typical battery discharge times at 50 % / 70 % of the maximum power output		
Pulsar EXtreme	20 minutes / 13 minutes	28 minutes / 16 minutes
Pulsar EXtreme + EXB LA	48 minutes / 32 minutes	54 minutes / 34 minutes
Pulsar EXtreme + EXB XLA	78 minutes / 60 minutes	77 minutes / 55 minutes
Pulsar EXtreme + EXB 2XLA	136 minutes / 100 minutes	136 minutes / 92 minutes
Connections		
Input	Fault-Tolerant and Hot Swap versions: IEC C20 (16 A), Install version: terminal board	
Output (optional)	Fault Tolerant version: standard connector (4 USE / 4 DIN / 3 BS / 4 Swiss or 5 Australia) or IEC sockets IEC (4 IEC 10 A + 1 IEC 16 A)	
	Hot Swap version: connector with maintenance bypass + standard sockets (4 USE / 4 DIN / 3 BS / 4 Swiss or 5 Australia) or IEC sockets (4 IEC 10 A + 1 IEC 16 A)	
	Install version: connector with maintenance bypass + terminal board	
Remote communication and control		
Standard port	1 Serial port	
Spare slot	1 Transverse-format slot for SNMP/Web card or XML Web card or USB card or JBus/ModBus card or contacts	
Dimensions (H x W x D in mm) / Weights (in kg)		
UPS or EXB LA or EXB XLA	Tower: 443 x 173 x 465 mm - Rack: 177 (4U) x 483 x 462 mm	
Weight of the UPS	Tower: 28 kg - Rack: 31 kg	Tower: 33 kg - Rack: 36 kg
Weight of the EXB LA and XLA	Tower LA: 22 kg, XLA: 36 kg	Tower LA: 28 kg, XLA: 48 kg
	Rack LA: 25 kg, XLA: 39 kg	Rack LA: 31 kg, XLA: 51 kg
Technical standards		
Approvals	CE / TÜV-GS Mark / CB Report	
Safety	IEC/EN 62040-1-1, EN 60 950-1 (RD)	
Electromagnetic compatibility	EN 50091-2, IEC 62040-2 Class B (including EXB battery extension module)	
Performance	IEC/EN 62 040-3	

Commercial models

Model	2000							3000						
	USE	DIN	BS	IEC	Swiss	Australian	Install	USE	DIN	BS	IEC	Swiss	Australian	Install
Connections														
Fault-Tolerant tower	67746	67748	67750	67741	67752	67754	-	67826	67828	67830	67821	-	67838	-
Hot Swap tower	67747	67749	67751	67742	67753	67755	67743	67827	67829	67831	67822	-	67839	67823
Fault-Tolerant rack	67766	67768	67770	67761	67772	67774	-	67846	67848	67850	67841	-	67858	-
Hot Swap rack	67767	67769	67771	67762	67773	67775	67763	67847	67849	67851	67842	-	67859	67843
	EXB Tower			EXB Rack				EXB Tower			EXB Rack			
EXB LA	67960			67980				67964			67984			
EXB XLA	67961			67981				67965			67985			

MGE UPS SYSTEMS

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