

Pulsar M UPS

2200/3000 VA

On-line double conversion UPS

Maximum availability

- ▶ **CONFIGURATION.** The Pulsar M is an on-line UPS with automatic by-pass and power factor correction.
- ▶ Continuous power supply with hot swappable batteries. The HotSwap MBP (Maintenance By-Pass) module allows the UPS to be replaced without interrupting the power supply.



- ▶ **Powershare.** The Pulsar M standard plugs are individually controlled to provide load-shedding to maximize the backup time. This UPS also provides remote reboot and sequential start-up as standard.
- ▶ **Long backup times.** 1 to 4 EXB battery units can be added to the Pulsar M. The Pulsar M 3000XL has a built-in high speed charger for additional long backup times.

Minimum total cost of ownership

- ▶ **EASY OPERATION.** Multilingual display provides access to a wide range of measurements and set-up menus.
- ▶ **Remote supervision.** A wide range of options using the Solution-Pac supplied: SNMP and HTML, ModBus/JBus and relay outputs.

Total Flexibility

Pulsar M has unmatched flexibility.

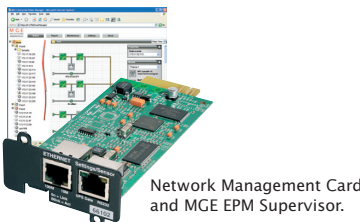
- ▶ **Format.** Pulsar M is available in RT2U convertible rack/tower version (optimized for rack mounting) or RT3U (for tower or shallow rack).
- ▶ **Connections.** With FlexPDU and HotSwap MBP, the Pulsar M can be connected with standard plugs. The plugs can be installed as required either behind, on the side, or on top of the unit.
- ▶ **Compatible with low power factor loads.** Pulsar M is rated for high total power factor.
- ▶ **Interfaces.** USB + serial + remote start/stop + slot for optional communications card.



FlexPDU and HotSwap MBP can be mounted in many different positions.



Adjustable multilingual display.



Ideal protection for:



Servers, data storage and network equipment.



Telephony - VoIP



Medical equipment - Industrial processes.

MGE

Office Protection Systems

An Eaton Brand

ENERGIZE YOUR ENTERPRISE

UPS - Pulsar M



- 1 LCD Multilingual display
 - 6 languages,
 - displays measurements,
 - displays alarms,
 - access to control and set-up menus.
- 2 Panel for replacing batteries without interrupting the output.
- 3 1 USB port + 1 serial port + remote ON/OFF and emergency stop inputs.
- 4 EXB battery unit connector.
- 5 EXB units recognized automatically.
- 6 (6) NEMA 5-15/20R receptacles, including (2) Powershare programmable sockets and (1) locking NEMA receptacle
- 7 Communications card slot.
- 8 Mountings for HotSwap MBP and FlexPDU.

MGE PowerServices™

2 year guarantee, including batteries

Standard exchange of product in case of failure, including batteries.

Associated services⁽¹⁾:

Warranty+: 3 year extended guarantee.
 Start Up+: on site commissioning.
 Warranty+ Silver: Warranty+ and Start Up+.
 Warranty+ Gold: Warranty+ Silver and 3 annual service visits.

1: Depending on the country, see www.mgeops.com/services.

Communications software and hardware

Solution-Pac software on CD-ROM with each UPS

For monitoring the server(s) powered by the UPS and for local and remote UPS supervision.

Network Management Card (NMC) 2006

For connecting the UPS to an Ethernet 10/100 network, raising SNMP alarms and supervising the UPS using a simple browser interface.

NMC environment sensor

Monitoring the temperature, humidity and 2 relay contacts via SNMP or HTML.

Enterprise Power Manager supervisor

For comprehensive management of a set of UPSs using a Windows PC.

Management-Pac 2 suite

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

Management Card Contacts/Serial

To provide UPS status outputs via relay contacts, emergency stop and a second serial port.

NMC ModBus/JBus card

For combined SNMP, HTML and ModBus/JBus supervision.

UPS Control remote display

To monitor the UPS status up to 82 feet from the unit.

Specifications

Pulsar M	2200	3000 - 3000 XL
Rating	2100 VA / 1650 W	3000 VA / 2550 W ⁽¹⁾
Format	RT2U (tower / rack 2U) and RT3U (tower / rack 3U)	

Electrical characteristics

Technology	On-line double conversion with automatic by-pass and power factor correction	
Input voltage and frequency ranges without using batteries	50 ² -100V to 142 V - 40 to 70 Hz	
Output voltage and frequency	120 V (adjustable to 100/104/110/125V), 50/60 Hz auto-select or frequency converter mode	

Connections

Input	NEMA 5-20P	NEMA L5-30P
Outputs	(6) NEMA 5-15/20R + (1) NEMA L5-20R	(6) NEMA 5-15/20R + (1) NEMA L5-30R
Remotely controlled Powershare receptacles	(2) individually controlled NEMA 5-15/20R receptacles	
Additional outputs with HotSwap MBP	(5) NEMA 5-15R or (5) NEMA 5-15/20R	
Additional outputs with FlexPDU	(10) NEMA 5-15R or (10) NEMA 5-15/20R or (8) NEMA L5-20R	

Batteries - Typical backup times for 50 and 70% of the VA rating except for Pulsar M 3000XL(3)

Pulsar M	17 min / 12 min	14 min / 8 min
Pulsar M + 1 EXB	84 min / 60 min	48 min / 32 min
Pulsar M + 4 EXB	286 min / 200 min	170 min / 120 min
Battery management	Automatic weekly test (period adjustable using LCD display or in software supplied), automatic recognition of external battery units => continuous maximization of backup time + deep discharge protection	

Interfaces

Indicators and display	3 LEDs + adjustable multilingual display: display of measurements, access to control and set-up menus	
Communication ports	1 USB port + 1 RS232 serial port ⁽⁴⁾ + 1 mini terminal block for remote ON/OFF and emergency stop	
Communications card slots	1 slot for NMC Minislot 2006 card or NMC ModBus/JBus or MC Contacts/Serial	

Operating conditions, standards and approvals

Operating temperature, noise level	32°F to 104°F (0°C to 40°C) continuous, 45 dBA	
Performance - Safety - EMC	IEC/EN 62 040-3 (VFI-SS-113), IEC/EN 62 040-1-1, IEC/EN 60 950-1 (RD), IEC/EN 62 040-2 C1, FCC Subpart B, Class A	
Approvals	CE - TÜV - CB Report - UL & CUL (CSA)	

Dimensions (H x W x D) / Weight

Pulsar M RT3U	5.16" x 17.32" x 19.29" (131 x 440 x 490 mm) (compatible with 23.5" deep racks) / 72 lbs	5.16" x 17.32" x 19.29" (131 x 440 x 490 mm) (compatible with 23.5" deep racks) / 70 lbs (3000 XL = 41 lbs)
Pulsar M RT2U	3.39" x 17.32" x 25.2" (86 x 440 x 640 mm) / 70 lbs	3.39" x 17.32" x 25.2" (86 x 440 x 640 mm) / 68 lbs
Pulsar M EXB RT3U	5.16" x 17.32" x 19.29" (131 x 440 x 490 mm) (compatible with 23.5" deep racks) / 92.6 lbs (42 kg)	

Part Numbers

	Pulsar M 2200	Pulsar M 3000
Pulsar M RT3U	86723	86733 3000 XL: 86735
Pulsar M RT2U	86722	86732
Pulsar M EXB RT3U	68405	
Pulsar Rack Kit 2U/3U	68441	
Battery extension cable - 6 foot	68442	

¹: Maximum rating with EXB battery units = 2400 W. 3000XL model = 2200 W ²: Lower limits for reduced load.

³: Except Pulsar M 3000 XL: UPS with high speed charger, without built-in batteries, for custom configurations: ask us for details. ⁴: USB and RS232 ports cannot be used simultaneously.