

# UPS

## PULSAR

700/1000/1500 VA

### On-line double conversion UPS

#### Ideal protection for:

- Servers, data storage and network equipment.
- Telephony - VoIP.
- Medical equipment - Industrial processes.

#### Maximum Availability

- Configuration. Double conversion on-line UPS with automatic by-pass and power correction factor.
- Powershare. The Pulsar output sockets are individually controlled to provide load-shedding to maximise the backup time and provide remote reboot and sequential start-up as standard.
- Continuous power supply. Hot swappable batteries. The HotSwap MBP (Maintenance By-Pass) module allows the UPS to be replaced without interrupting the power supply.
- Long backup times. 1 to 4 EXB battery units can be added to the Pulsar 1000 or 1500.

#### Minimum total cost of ownership

- Easy operation. Multilingual display. Access to a wide range of measurements and set-up menus.



Mini-tower version.



RT2U version.



HotSwap MBP 4DIN.



1 to 4 EXB battery units can be added to increase the backup time.

- Remote supervision. A wide range of options using the Solution-Pac supplied: SNMP and HTML, ModBus/JBus and relay outputs.

#### Flexibility

Pulsar has unmatched Flexibility.

- Format. Pulsar is available in tower format or RT2U convertible rack/tower version (for shallow rack mounting).
- Connections. With FlexPDU and HotSwap MBP, the RT2U models can be connected by sockets or terminal blocks. They can be installed as required behind, on the side or on top of the unit.
- Compatible with low power factor loads. Pulsar is rated for 0.9 total power factor (1500VA/1350 W, 1000VA/900W and 700VA/630W)
- Interfaces. USB + serial + remote start/stop + slot for optional communications card.

#### ■ MGE PowerServices™

##### 2 year guarantee, including batteries

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

##### ■ Associated services(I)

Warranty+: 3 year extended guarantee.

I: Depending on the country, see [www.mgeups.com/services](http://www.mgeups.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 25m from the unit.

### PRODUCT FEATURES & BENEFITS

#### 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 recognised automatically.

#### 6 6 IEC 10A sockets, including 3 Powershare programmable sockets.

#### 7 Communications card slot.

#### 8 Mountings for HotSwap MBP and FlexPDU.



## Specifications

Pulsar	700	1000 - 1000 RT2U	1500 - 1500 RT2U
Rating	700 VA / 630 W	1000 VA / 900 W(1)	1500 VA / 1350 W(1)
Format		Mini tower	Mini tower or RT2U (tower/rack 2U)
<b>Electrical characteristics</b>			
Architecture	On-line double conversion with automatic by-pass and power factor correction		
Input voltage and frequency ranges without using batteries	100/120/140/160V(2) to 284V - 40 to 70 Hz		
Output voltage and frequency	230V (adjustable to 200/208/220/240/250 V), 50/60 Hz auto-select or frequency converter mode(3)		
<b>Connections</b>			
Input	1 IEC C14 (10A) socket		
Outputs	6 IEC C13 (10A) sockets		
Remotely controlled	2 independent groups: 2 + 1 IEC C13 (10A) sockets		
Powershare sockets			
Additional outputs with HotSwap MBP FR/DIN/BS/IEC/HW	4 FR/Schuko sockets or 3 BS sockets or 6 IEC 10A sockets or terminal blocks (HW version)		
Additional outputs with FlexPDU FR/DIN/BS/IEC	8 FR/Schuko sockets or 6 BS sockets or 12 IEC 10A sockets		
<b>Batteries</b>			
Typical backup times for 50 and 70% of the VA rating			
Pulsar	15 mn / 11 mn	18 mn / 13 mn	15 mn / 10 mn
Pulsar + 1 EXB	-	80 mn / 60 mn	60 mn / 40 mn
Pulsar + 4 EXB	-	300 mn / 230 mn	180 mn / 140 mn
Battery management	Automatic weekly test (period adjustable using LCD display or in software supplied), automatic recognition of external battery units => continuous maximisation of backup time + deep discharge protection		
<b>Interfaces</b>			
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 and relay contacts(4) + 1 mini terminal block for remote ON/OFF and emergency stop		
Communications card slots	1 slot for NMC Minislot 2006 card (included in Netpack version) or NMC ModBus/JBus or MC Contacts/Serial		
<b>Operating conditions, standards and approvals</b>			
Operating temperature	0°C to 40°C continuous, 45 dBA		
noise level			
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 Class		
Approvals	CE, TÜV GS, CB report, cTÜV-US		
<b>Dimensions (H x W x D) / Weight</b>			
Pulsar	242 x 158 x 400 mm / 12.5 kg	242 x 158 x 400 mm / 15 kg	242 x 158 x 450 mm / 18 kg
Pulsar RT2U	-	86.5 x 438 x 480 mm / 18 kg	86.5 x 438 x 480 mm / 20.5 kg
Pulsar EXB	-	242 x 158 x 400 mm / 21 kg	
Pulsar EXB RT2U	-	86.5 x 440 x 480 mm / 24.5 kg	

1: Maximum rating with EXB battery units: Pulsar 1000 = 800 W, Pulsar 1500 = 1200 W. 2: Lower limits for <20%, <33%, <66%, >=66% of nominal power (VA). For active output power greater than 0.7 and 0.8 nominal rating, the lower limit is 180V and 190V respectively. 3: Derated by 15% when used as a frequency converter. 4: USB and RS232 serial ports cannot be used simultaneously.

## Part numbers

	700	1000	1500
Pulsar	68 180	68 181	68 183
Pulsar RT2U (includes rack kit)	-	68 182	68 184
Pulsar EXB	-	68 185	
Pulsar EXB RT2U (includes rack kit)	-	68 186	
10A connection cables for HotSwap MBP	FR/Schuko = 68 439, BS = 68 440		

Network Management Card and MGE EPM Supervisor:



Adjustable multilingual display.



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

