

Pulsar Extreme UPS 2000/3000 VA

Modular protection for your critical applications, networks, Internet and telecom systems

High performance and reliability

- ▶ On-line double conversion technology
- ▶ 84 to 264 V input without using battery power
- ▶ CE/TÜV-GS and ISO 14001 standards

High availability

- ▶ Automatic bypass
- ▶ Hot-swap function
- ▶ Redundancy

Advanced communications

- ▶ Wide range of communication solutions
- ▶ Solution-Pac remote administration software
- ▶ UPS-Driver personalization software

Ease of use

- ▶ Easy installation and integration
- ▶ Practical full-featured user interface
- ▶ Warranty+: three-year extended warranty

Flexibility and scalability

- ▶ Connection via outlet sockets or terminals
- ▶ Backup times from 10 minutes to 8 hours

MGE
UPS SYSTEMS

THE UNINTERRUPTED POWER PROVIDER





Pulsar Extreme UPSs are designed to meet the needs of modern equipment: network, Intranet and Internet servers and interconnection devices, computer and telecommunications centers (PABX), medical and industrial equipment.

High performance and reliability

On-line double-conversion technology

This technology guarantees a consistently high level of power quality. Whatever the disturbances on the distribution system, the waveform is regenerated via the AC to DC then DC to AC conversion process. The battery is used only as a backup source.

High-performance battery charger

The Pulsar EXtreme battery charger:

- > reduces battery recharge time (80% backup time recovered in two hours);
- > increases the service life of the battery by taking into account manufacturer parameters, ambient temperature and battery aging;
- > protects the battery against damage caused by deep discharge;
- > avoids disturbances on the distribution system by correcting the power factor;
- > avoids propagating faults on the distribution system (backfeed protection).

Wide input-voltage range

Pulsar EXtreme has very wide input-voltage tolerances from 84 to 264 V to reduce the number of transfers to battery power while maintaining constant output voltage.

In this way the batteries are used only for the most serious incidents, maximizing available backup time and extending battery life.

High availability

Cold start on battery power

This function ensures trouble-free start-up of your applications even during a utility power outage.

Automatic bypass

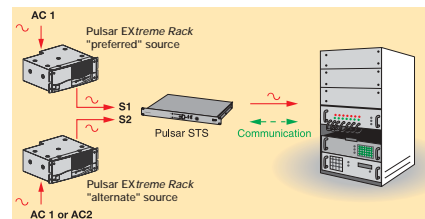
In the event of an overload or UPS fault, Pulsar EXtreme automatically transfers the load to utility AC power.

Hot-swap function

Maintenance on the "Hot-swap" and "Install" versions is possible with the UPS energized and the applications still supplied with power.

High-availability pack

A Pulsar STS source transfer switch combined with two Pulsar EXtreme UPSs provides effective power redundancy.



Advanced communications

Pulsar EXtreme offers a complete set of communications solutions and accessories designed for electrical and computer applications.

Communications port

The RS232 link is available for easy connection of the UPS to the server. It may be used for:

- > **personalization of Pulsar EXtreme** by modifying the factory-set parameters (output voltage, intervals between battery tests, operation on bypass, etc.) via UPS-Driver software.
- > **local or remote administration** of the UPS and the protected servers, either :
 - > Via SNMP and the Solution-Pack software suite available on CD-Rom or via the web and XML software products downloadable on our web site www.mgeups.com

- > remotely supervise and control UPSs.

Communications slot

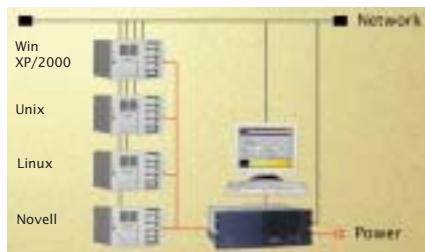
These slots let you add one or two communication cards such as USB, SNMP, XML-Web card, JBus, Relay contact, etc. The cards make UPS communication totally independent. For example, they keep you informed of UPS status when the server is shut down.



Communications slot



UPSControl remote control panel



Solution-Pack ensures clean individualized shutdown of servers in heterogeneous environments.

- > Beside the administration, via SNMP or the Web, our software may be used to:
 - > alert users;
 - > automatically shut down different servers in a heterogeneous environment;
 - > remotely supervise and control UPSs.servers in a heterogeneous environment;

UPSControl remote display

Using UPSControl, the various UPS parameters are remotely displayed.

MultiSlot expansion module

This module provides three additional communications slots and concentrates the data from an installation comprising redundant UPSs.





Ease of use

► Easy installation and integration

- > Tower or 19"-rack models
- > Complete installation kit
- > Quick start-up guide
- > Easy connection to AC power



The Pulsar Extreme 3000 Rack comes with sliding rails for 600 to 900 mm rack-mount cabinets.

► Comprehensive display and controls

Alarms

-
- UPS overload
 - electronics fault
 - battery fault
 - T ambient > 40°C
 - % battery backup time
 - press and hold to display percent load
 - lamp test or buzzer off
 - operation on manual bypass
 - operation on automatic bypass
 - operation in ON-LINE mode
 - operation on battery
 - ON/OFF

► Warranty and services

Pulsar EXTreme is covered by a two-year full warranty. The optional MGE Warranty+ extension ensures user peace of mind for three years on site.



Flexible and scalable

► Backup times from 10 minutes to several hours

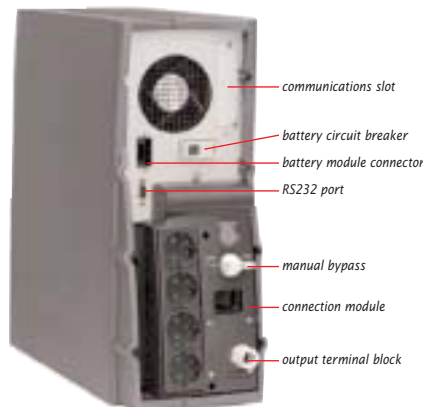
Pulsar EXTreme offers a standard backup time of 10 minutes.

To ensure greater continuity of service, it is possible to:

- > connect up to two EXB battery extension modules to the UPS, without interrupting the supply of power to the protected applications;



- > use the CLA module (long backup-time charger) for very long backup times of up to eight hours at full rated load. Feel free to contact us for details.

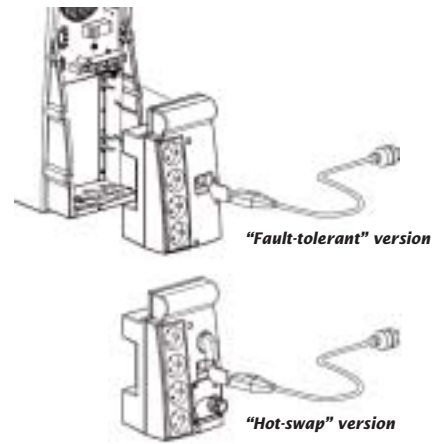


Rear view of Pulsar EXTreme "Hot-swap" version

► Flexibility of connections

Pulsar EXTreme offers different connection possibilities:

- > plug-in ("Fault-tolerant" and "Hot-swap" versions) for direct connection;



Different outlets for different countries

- > terminal blocks ("Install" version) for installations in an electrical environment. This version must be installed by a qualified technician.



"Install" version

Characteristics

Pulsar EXtreme	2000 VA	3000 VA
General		
Power	2000VA/1330W	3000VA/2000W
Input-voltage range	84/120/160 to 265 without using battery power (1)	
Frequency range	50/60 Hz	
Power factor (THDI)	0.99 (< 5%)	
Sinusoidal output voltage	200/208/220/230/240 Volts	
Harmonic distortion	<3% for linear loads, <5% for non-linear loads	
Efficiency On-line mode	89%	90%
Crest factor	3.1	3.1
Short circuit current (A)	27	41
Overload capacity (On-line mode)	130% for 60s, 160% for 10s, 250% for 1s	
Batteries		
Standard backup time 100% rated output	9 min	9 min
50% rated output	20 min	20 min
With 1 EXB battery extension module LA	20 min	20 min
With 1 EXB battery extension module XLA	36 min	36 min
With 2 EXB battery extension modules XLA	66 min	66 min
Automatic battery test	Yes, at regular intervals without risk of interrupting protected applications	
Communication		
Optional cards for UPS or MultiSlot module	<ul style="list-style-type: none"> ▪ SNMP/Web ▪ XML-Web ▪ 2 RS232 U-Talk or Basic (volt-free contacts) ports ▪ RS232 or RS485 JBus/ModBus ▪ 6 relay contacts 250V 2A ▪ USB ▪ 2 RS232 COM ports (HID protocol) ▪ 2 AS400 (volt-free contacts) or/and remote shutdown ports 	
Environment		
Acoustic noise	45 dB	
Operating temperature	0 to 35°C	
Standards		
Performance	IEC/EN 62040-3	
Safety	IEC/EN 62040-1-1, IEC/EN 60950	
EMC	EN 55022/B, IEC 62040-2	
Marking and certifications	CE,TÜV/GS, C-Tick	
Design and manufacture	ISO 9001: 2000, ISO 14001	
Dimensions (HxWxD in mm) and weight (in kg)		
UPS and EXB or CLA module dimensions	443x173x465 (tower)	177(4U)x483x462 (rack)
UPS weight	28 (tower) 31 (rack)	33 (tower) 36 (rack)
EXB module weight LA	22 (tower) 25 (rack)	28 (tower) 31 (rack)
XLA	36 (tower) 39 (rack)	48 (tower) 51 (rack)
CLA module weight	11 (tower) 14 (rack)	11 (tower) 14 (rack)
Warranty		
2 years, extendable by contract		

(1) Values for operation at 50%, 66% and 100% rated output.

Typical applications	router + 2 hubs	PABX (1000 lines)	2 Unix workstations	6 tower PCs	4 PC servers	5 file servers
Power (VA)	500	1000	1500	2000	2500	3000
Pulsar EXtreme 2000	50 min	20 min	11 min	9 min	-	-
Pulsar EXtreme 3000	80 min	36 min	20 min	14 min	11 min	9 min

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