



COMET EXTreme UPS

4.5/6/9/12 kVA

Modular protection for your computer rooms, networks, internet and telecom systems

▶ **High performance and reliability**

- > On-line double conversion technology
- > 84 to 264 V input without using battery over
- > 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

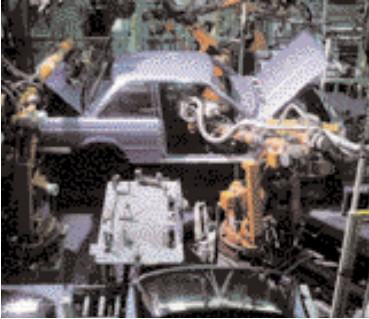
▶ **Flexibility and scalability**

- > Backup times from 10 minutes to 8 hours



THE UNINTERRUPTIBLE POWER PROVIDER

MGE
UPS SYSTEMS



Comet EXtreme UPSs are designed to meet the needs of modern equipment: network, intranet and internet servers and interconnection devices, computer and telecommunications centers, 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 Comet 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;
- > backfeed protection to avoid propagating faults on the distribution system.

► Wide input-voltage range

Comet EXtreme optimizes the input-voltage window to reduce the number of transfers to battery power while maintaining constant output voltage. This maximizes the battery power available for serious power problems and extends 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, Comet EXtreme automatically transfers your equipment to utility AC power.

► Hot-swap function

Comet EXtreme lets you service the UPS module and replace batteries without interrupting the supply of power to your applications.

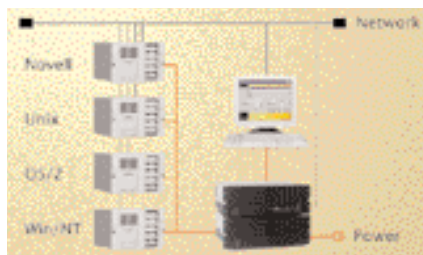
Advanced communications

Comet 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 Comet 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



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.

► Two communications slots

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



Communications slots



UPSControl remote control panel

► 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

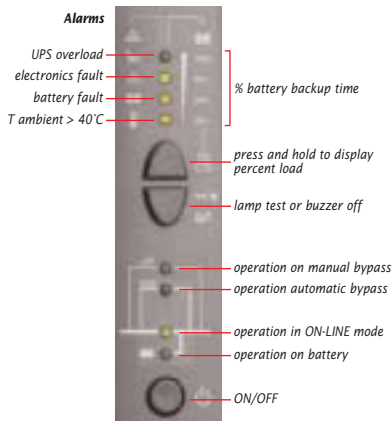
► Easy installation and integration

- > Tower and 19"-rack models
- > Complete installation kit
- > Quick start-up guide
- > Easy connection via terminal blocks
- > Optional caster-mounted support for easy handling



The Comet EXtreme 6 Rack comes with sliding rails for 600 to 900 mm rack-mount cabinets.

► Comprehensive display and controls



► Warranty and services

Comet EXtreme is covered by a one-year full warranty. The MGE Warranty+ option extends the guarantee to three years.



Flexible and scalable

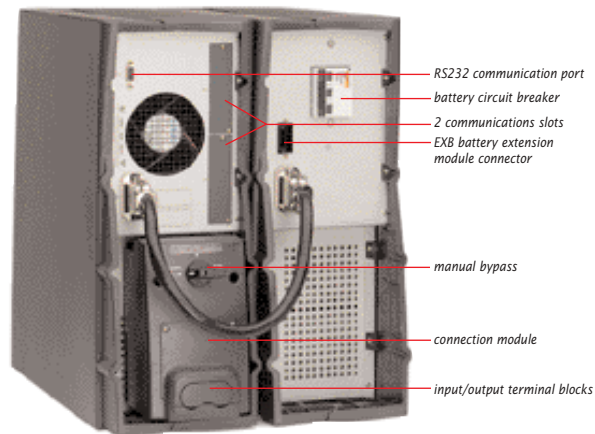
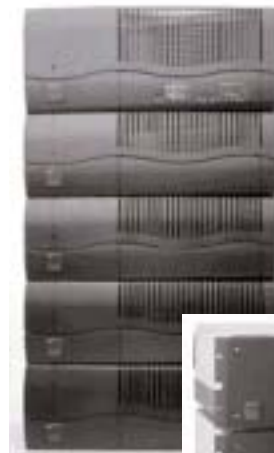
► Backup times from 10 minutes to several hours

Comet EXtreme offers a standard backup time of 10 minutes.

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

- > connect 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 Comet EXtreme 6



Terminal blocks connection

► Emergency Power Off

An emergency power off function is available as an option.

► Electromagnetic compatibility

Comet EXtreme 19" rack models comply with the most severe EMC standards (level B) to avoid all risk of disturbances in your network rack-mount cabinets.



Comet EXtreme 4.5/6 kVA
1 electronics module and 1 Comet EXB battery module



Comet EXtreme 4.5/6 kVA
1 electronics module and 1 Comet EXB battery module

Characteristics

Comet EXtreme	4,5 kVA	6 kVA	9 kVA	12 kVA
General				
Power	4,5 kVA/3 kW	6 kVA/4 kW	9 kVA/6 kW	12 kVA/8 kW
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 Online mode	92%	93%	92%	93%
Crest factor	4,2	3,1	4,2	97%
short circuit current (A)	82	82	164	3,1
Overload capacity (Online mode)	130% for 60s, 160% for 10s, 250% for 1s			
Batteries				
Standard backup time 100% rated output	12 min	9 min	12 min	9 min
50% rated output	30 min	23 min	30 min	23 min
With 1 Comet EXB battery extension module	30 min	23 min	30 min	23 min
With 2 Comet EXB battery extension modules	54 min	40 min	54 min	40 min
Automatic battery test	Yes, at regular intervals without risk of interrupting protected applications			
Communication				
Optional cards for UPS or MultiSlot module	1 RS232/U-Talk port + 2 communications slots			
	<ul style="list-style-type: none"> ▪ SNMP ▪ 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 			
Environnement				
Acoustic noise	45 dB			
Operating temperature	0 to 40°C			
Normes et certifications				
Performance	EN 50091-3			
Safety	EN 50091-1, IEC 60950			
EMC	EN 50091-2, EN 55022/B, EN 55011/B, FCC Part 15 - Subpart B - Class A			
	IEC 61000-4, IEC 61000-3-2			
Marking and certification	CE, TÜV/GS, C-Tick			
Design and manufacture	ISO 9001, ISO 14001			
Dimensions (hxlxp en mm) et poids (en Kg)				
UPS (electronics + battery)	443x346x465 (tower) 62 Kg	354(8U)x483x462 (rack) 69 Kg	443x562x465 (tower) 118 Kg	575(13U)x483x462 (rack) 129 Kg
Electronics module	443x173x465 (tower) 14 Kg	177(4U)x483x462 (rack) 18 Kg	443x216x465 (tower) 22 Kg	221(5U)x483x462 (rack) 27 Kg
Battery module Comet EXB	443x173x465 (tower) 48 Kg	177(4U)x483x462 (rack) 51 Kg	443x173x465 (tower) 48 Kg	177(4U)x483x462 (rack) 51 Kg
CLA module	443x173x465 (tower) 14 Kg	177(4U)x483x462 (rack) 17 Kg	443x173x465 (tower) 14 Kg	177(4U)x483x462 (rack) 17 Kg
Garantie				
	1 year, extendable by contract			

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

MGE UPS SYSTEMS

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