

# single-phase UPS

## Comet *EXtreme*

### 4.5/6/9/12 kVA

## Enhanced protection for service sector environments

### High availability

- ▶ UPS and battery fully interchangeable on-line: thanks to the manual bypass, there is no interruption of the power supply to the protected position during replacement of the UPS or the battery.
- ▶ In addition to the manual bypass, the Comet EXtreme is equipped as standard with an automatic bypass which transfers the load to the mains supply in the event of an overload or a fault.
- ▶ No demand on the batteries over a wide range of input voltages (85 to 265 Volts).

Manual bypass



### Choice of battery capacities



- ▶ Standard battery capacity ranging from 20 minutes (at 70 % load) up to several hours with battery extension modules.
- ▶ Very long endurance (up to 8 hours at full power) with the CLA charger module.

### Protection for equipment which is sensitive to electromagnetic interference:

Comet EXtreme conforms to the most stringent EMC standards (Level B):

- ▶ standard version: rack format,
- ▶ optional tower format.



### Perfect integration into service sector environments

#### Rack format

- ▶ 8 U (1 x 4 U battery module + 1 x UPS 4 U module) for the 4.5 and 6 kVA versions.
  - ▶ 13 U (2 x 4 U battery modules + 1 x UPS 5 U module) for the 9 and 12 kVA versions.
  - ▶ Compatible with racks from 600 to 900 mm deep.
  - ▶ Optional Comet PDU: IEC 10 A and 16 A terminal block to facilitate electrical distribution in the rack (electrical panel not required).
- #### Tower format
- ▶ Less than 450 mm high, the Comet Extreme can easily be installed beneath a console table, a reception desk or in a power room.

### Visual and audible check

LEDs and an audible alarm on the front panel of the Comet EXtreme provide instant identification of the alarms and rapid verification of the status of the UPS.

Protection for 20 to 55 servers, ideal for:

- ▶ sets of PCs, servers and workstations
- ▶ departmentalised IT systems



With its 2 rack or tower formats, the Comet Extreme is particularly easy to integrate into service sector environments.

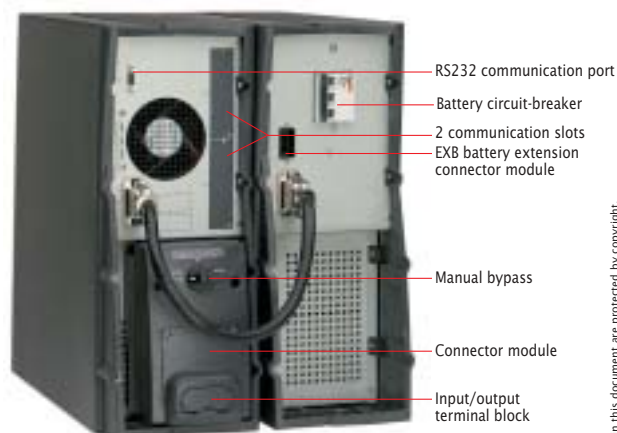
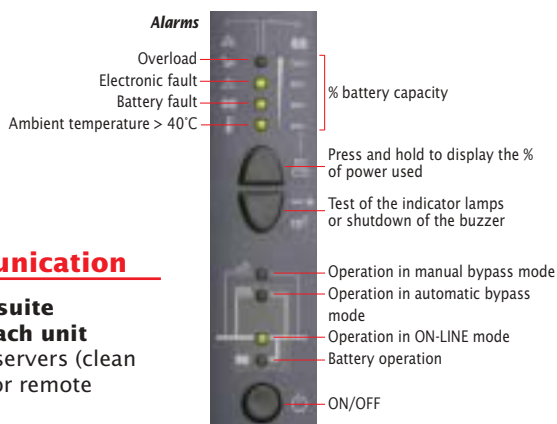


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**M G E**  
UPS SYSTEMS

# Single-phase UPS - Comet Extreme



Rear view of the Comet Extreme 6

## Associated communication

### Solution-Pac software suite supplied on CD with each unit

To control the protected servers (clean shutdown) and for local or remote 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 free potential contacts plus emergency stop.

### Remote LCD display for controlling the UPS

To remotely locate the interface of the UPS up to 25 m and to display its parameters.

## MGE PowerServices™

### 1-year warranty, including batteries.

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

### Associated services<sup>(1)</sup>

- ▶ **Warranty+:** peace of mind for your UPS, extended 3-year warranty with standard on-site exchange with the minimum of delay.
- ▶ **Start Up+:** guarantee of on-site repair of the UPS efficient, quick and compliant with specifications.
- ▶ **Warranty+ Silver:** includes Warranty+ and Start Up+.
- ▶ **Warranty+ Gold:** guarantee of continuity of service for the UPS, includes Warranty+, Start Up+ and 3 site visits.
- ▶ **Teleservice / e-Teleservice:** secure remote monitoring of the UPS via the telephone network / Internet.

<sup>1</sup>: Depending on the country, visit [www.mgeups.com/services](http://www.mgeups.com/services).

## MGE UPS SYSTEMS

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## Technical characteristics

Comet Extreme	4,5 kVA	6 kVA	9 kVA	12 kVA
<b>Performances</b>				
Power output	3 kWatts	3,9 kWatts	6 kWatts	8 kWatts
Technology	On-line double conversion			
Input voltage	160 to 265 V at 100 % load 120 to 265 V at 65 % load 85 to 265 V at 50 % load			
Input frequency	50/60 Hz (+/- 10 %)			
Efficiency	92 %			
Current distortions (THDI)	< 5 %			
Overload capacity	250 % 1 s ; 160 % 10 s ; 130 % 60 s			
Output voltage	200/208/230/240/250 Volts			
Output frequency	50/60 Hz automatic selection			
Operating temperature	0°C to 40°C in continuous operation			
<b>Battery capacity at 70 % load / 100 % load</b> (typical values after 3 discharge cycles, batteries 3 to 5 years old)				
Standard endurance	20 mins/12 mins	12 mins/9 mins	20 mins/12 mins	12 mins/9 mins
LA endurance	45 mins/30 mins	35 mins/20 mins	45 mins/30 mins	35 mins/20 mins
X LA endurance <sup>(1)</sup>	70 mins/55 mins	55 mins/40 mins	70 mins/55 mins	55 mins/40 mins
<b>Connection</b>				
Input/output terminal block (optional Comet PDU terminal strip)	Flexible cable 4 to 10 mm <sup>2</sup> Rigid cable 4 to 16 mm <sup>2</sup>		Flexible cable 10 mm <sup>2</sup> Rigid cable 10 to 16 mm <sup>2</sup>	
<b>Communication</b>				
Port	1 RS 232			
Communication slots	2 slots for transverse-format cards (HTTP/XMLWebcard, Jbus, etc.)			
<b>Standards and certifications</b>				
Performance and safety	EN 50091-3 ; EN 50091-1 ; IEC 60 950.			
EMC	EN 50091-2 ; EN 55022/B, EN 55011/B, IEC 61000-4, IEC 61000-3-2.			
Certification	TUV, GS mark, C-Tick, CE			
<b>Dimensions (H x L x D in mm) and weights</b>				
Comet Extreme (standard endurance)				
tower format	443 x 346 x 465 ; 62 kg		443 x 562 x 465 ; 118 kg	
rack format	354 (8U) x 483 x 462 ; 69 kg		575 (13 U) x 483 x 462 ; 129 kg	
Comet Extreme Power Module				
tower format	443 x 173 x 465 ; 14 kg		443 x 216 x 465 ; 22 kg	
rack format	177 (4U) x 483 x 462 ; 18 kg		221 (5U) x 483 x 462 ; 27 kg	
Comet EXB Battery Module				
tower format	443 x 173 x 465 ; 48 kg		443 x 346 x 465 ; 96 kg	
rack format	177 (4U) x 483 x 462 ; 51 kg		354 (8U) x 483 x 462 ; 102 kg	
Comet CLA Charger Module				
tower format	443 x 173 x 465 ; 14 kg		443 x 346 x 465 ; 28 kg	
rack format	177 (4U) x 483 x 462 ; 17 kg		354 (8U) x 483 x 462 ; 34 kg	

<sup>1</sup>: Higher battery capacities available in 2 XLA - contact us.

## Commercial models

Comet Extreme	4,5 kVA	6 kVA	9 kVA	12 kVA
Standard endurance UPS				
tower format EMC Level A	67 861	67 881	67 901	67 921
rack format EMC Level B + EPO	67 865	67 885	67 905	67 925
tower format EMC Level B	67 875	67 895	67 915	67 935
rack format EMC Level B + EPO	67 873 + 67 991	67 893 + 67 991	67 913 + 67 995	67 933 + 67 995
Comet EXB Battery Module				
standard tower format / EPO	67 970 / 67 971		67 974 / 67 975	
standard rack format / EPO	67 990 / 67 991		67 994 / 67 995	
Comet Extreme Power Module				
tower format EMC Level A	67 860	67 880	67 900	67 920
rack format EMC Level B	67 863	67 883	67 903	67 923
rack format EMC Level B	67 873	67 893	67 913	67 933
Comet CLA Charger Module				
tower / rack formats	67 886 / 67 896		67 926 / 67 936	

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