



# All-purpose UPS

## Comet EX RT

7/11 kVA

Perfect for rack servers enclosure and industrial environment

### High-availability

- ▶ Hot-swappable battery and UPS modules without interrupting the secured system.
- ▶ Internal bypass and maintenance bypass included as standard to achieve the highest level of availability.
- ▶ Redundant power feed from 2 independant sources (AC normal and bypass inputs can be common or separate).
- ▶ Large input voltage window: from 120 up to 280 Volts without using battery power.
- ▶ Automatic battery test and protection against deep discharges.

Comet EX RT tower 10 min runtime model. Hot-swappable battery and UPS modules.



Comet EX Network Pack model with Web/SNMP card and rack integration kit for enclosures from 800 up to 1200 mm depth.

### Compatibility with any environment:

#### Data room

- ▶ Versatile format Tower / Rack (6 U).
- ▶ Management through various protocols (HTTP/SNMP/XML/Telnet).
- ▶ Integration with popular Network Management Systems (HP Openview, IBM Tivoli, CA Unicenter...)
- ▶ Rackable PDU (option) with IEC outlets to facilitate power distribution within the enclosure.

#### Ergonomics

- ▶ Multilingual display and LEDs.
- ▶ Simple set-up (network or industrial mode) to give priority to system shutdown or service continuity in case of overload or short-circuit.
- ▶ Event log for easy fault detection.

#### Industry and infrastructure

- ▶ Battery Integration System option to optimize the footprint of extended runtime solutions (automatic battery module detection).
- ▶ Compatibility with all types of genset.
- ▶ Integration with Building Management Systems (Jbus), 6 voltage-free contacts for remote supervision.
- ▶ Temperature and humidity supervision with Environment Sensor (option), which can trigger an orderly shutdown.

#### Redundancy

- ▶ Easy to achieve hot standby system through two single units (N+2).

#### Large choice of back-up times

- ▶ From 10 minutes up to 2 hours with battery modules and up to 8 hours with the CLA charger module.



Battery Integration System to support up to 8 modules (1 hour runtime + 1 transformer module).

Power protection for 35 servers (7 KVA version) up to 55 servers (11 KVA version)



Perfect for high density server enclosures.



Ideal for mission critical infrastructure.



Full compatibility with any type of genset.

THE UNINTERRUPTIBLE POWER PROVIDER

**MGE**  
UPS SYSTEMS

## MGE PowerServices™

**1 year warranty.** Standard exchange in case of faulty product, battery module included.

### Service range<sup>(5)</sup>:

Warranty+: warranty extension up to 3 years.

Start Up+: On-site UPS commissioning. Warranty+ Silver includes Warranty+ and Start Up+.

Warranty+ Gold includes Warranty+, Start Up+ and 3 maintenance visits. Teleservice.

## Specifications

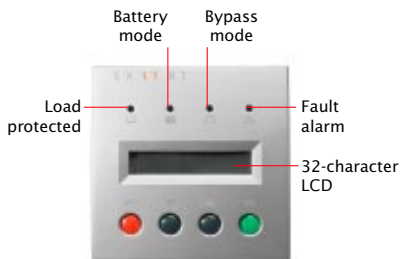
	7 KVA	11 KVA
<b>Performances</b>		
Active power	7 KVA/ 4,9 KW	11 KVA/ 8 KW
Technology	on-line double conversion with PFC (Power Factor Correction) system	
Input voltage range	120-155 V at 70 % rated output; 155-280 V at 100 % rated output;	
Input frequency range	40-70 Hz, frequency converter as a standard	
Output voltage / output frequency	200 / 208 / 230 / 240 / 250 Volts / 50 / 60 Hz autoselect	
Overall efficiency (on line mode-ECO mode)/ harmonic current distortion	92 % - 97 % / <5%	
Crest factor / overload capacity	3:1; >150 % 500 ms; 150 % 30 s; 125 % 60 s; 110 % 120 s	
Battery test	weekly without load interruption <sup>(1)</sup>	
Temperature operating	45°C for 8 H <sup>(2)</sup> ; 0°C to 40°C continuous	
<b>Back-up times : connection from 1 up to 6 battery modules EXB<sup>(3)</sup></b>		
standard back-up time	12 mn / 7 mn	10 mn / 6 mn
70 % load / 100 % load		
1 power mod. + 2 battery mod. EXB	30 mn / 20 mn	20 mn / 15 mn
70 % load / 100 % load		
1 power mod. + 6 battery mod. EXB	120 mn / 75 mn	100 mn / 60 mn
70 % load / 100 % load <sup>(4)</sup>		
<b>Connection</b>		
Input / output	terminal block for 13 mm <sup>2</sup> (stranded cable, cable lug included) or 10 mm <sup>2</sup> (solid cable diameter) / PDU option for IEC receptacles	
<b>Communication</b>		
Port type	6 voltage free contacts D89 2 A 48V DC, 1 RS 232, 1 RJ 45 for RPO (remote power off)	
Slot	1 slot for MGE transverse communication card (HTTP, XML, Web, Jbus...)	
<b>Standards and certification</b>		
Performance and safety	IEC 62040-1/CEI 60950/UL 1778 and CSA 22.2 stds <sup>(5)</sup>	
EMC	IEC 62040-2; EN 50091-2; FCC class A	
Certification	UL/TÜV, GS mark, CB, C-Tick, CE	
<b>Dimensions (H x W x D) in mm / Weight</b>		
Comet EX RT (standard back-up time)	444.5 X 261.2 X 700 / 91 Kg	444.5 X 261.2 X 700 / 100 Kg
Tower format		
Comet EX RT (standard back-up time)	261.2 (6 U) X 444.5 X 700 / 99 Kg	261.2 (6 U) X 444.5 X 700 / 108 Kg
Network Pack rack format		
Comet EX RT Power module	130.6 (3 U) X 444.5 X 700 / 26 Kg	130.6 (3 U) X 444.5 X 700 / 31 Kg
Comet EXB RT Battery module	130.6 (3 U) X 444.5 X 634 / 65 Kg	130.6 (3 U) X 444.5 X 634 / 69 Kg
Comet EX RT CLA Charger module	130.6 (3 U) X 444.5 X 634 / 12 Kg	
Comet EX transfo RT Transformer module	130.6 (3 U) X 444.5 X 634 / 87 Kg	

Part number and description	68 070 / 68 071	68 110 / 68 111
Comet EX RT / Comet EX RT + commissioning included <sup>(5)</sup>	<i>standard back-up time tower format</i>	<i>standard back-up time tower format</i>
Comet EX RT Network Pack / Comet EX RT Network Pack + commissioning included <sup>(5)</sup>	68 072 / 68 073	68 112 / 68 113
	<i>standard back-up time delivered with SNMP / Web card and rack integration kit</i>	
Comet EX RT Power module	68 075	68 115
	<i>power mod for non standard back-up time and CLA module, delivered without rack integration kit</i>	
Battery module Comet EXB RT / EXB RT with EPO built-in	68 078 / 68 079	68 118 / 68 119
	<i>Battery mod. for non standard back-up time, delivered without rack integration kit</i>	
Rack kit for Comet EX RT power module / Comet EXB RT and CLA	68 001 / 68 002	
Comet EX RT Transformer module	68 003	
	<i>transformer for galvanic isolation and SEA</i>	
Comet EX RT CLA Charger module	68 004	
	<i>long back-up time charger from 1 up to 8 h</i>	
EX RT Battery Integration System	68 005	
	<i>Stack kit delivered with inter-module fastening (maxi 8 modules capacity) and swivel wheels with brakes and leveling feet</i>	

1: Configurable. 2: At nominal power for 230 V input/output. 3: Typical values after 3 discharge cycles, 3-5 years design life battery. 4: Longer back-up time available with CLA module, on request. 5: Dependant on country, consult [www.mgeups.com/services](http://www.mgeups.com/services).



- 1 Slot for communication cards
- 2 Output contacts communication port
- 3 Remote Emergency Power Off communication port (REPO)
- 4 Connectors for automatic detection of battery module(s)
- 5 RS 232 communication port
- 6 Battery module connectors (to the UPS or the other battery modules)
- 7 Manual Bypass switch
- 8 Output terminal block
- 9 Normal AC source switch
- 10 Normal AC source terminal block
- 11 Bypass AC source terminal block
- 12 Battery circuit-breaker



LCD display, rotating (tower or rack format), multilingual, backlit.

## Power management

### Solution-Pac software suite on CD

Included with all UPSs. For server protection and local or remote UPS management.

### Optional network management card

For Ethernet 10/100 network connection, SNMP alerts and Web-based monitoring.

### Environment Sensor for SNMP / Web card

SNMP and Web monitoring of temperature + humidity + status of 2 contacts.

### Management-Pac 2 software suite on CD

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

### Status information card

For UPS monitoring through voltage-free contacts + remote power-off function.

## MGE UPS SYSTEMS

140, avenue Jean-Kuntzmann  
ZIRST - Montbonnot Saint-Martin  
38334 Saint-Ismier Cedex - France  
Tél. : +33 (0)4 76 18 30 00

cexrt\_448uk

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