

UPS

Comet EX RT

7/11 kVA single phase input / output

5/7/11 kVA three phase input / single phase output

Perfect for rack servers enclosures and industrial environment

Top of the range protection ideal for servers:

- 25 servers (5kVA model) to 55 servers (11kVA model)

High availability

- Hot swappable UPS and battery modules.
- Internal bypass and maintenance bypass included as standard.
- The UPS can be connected to two independent electrical sources (sources 1 and 2 can be common or separate).
- Large input voltage range without draining the battery: 230V +20% to -30% single phase and 400V +15% to -20% three phase.
- Batteries tested automatically at regular intervals and protected against deep discharge.
- N+1 redundancy supported by two single units.

Wide choice of backup times

- From 10 minutes to 2 hours with battery modules or up to 8 hours using the CLA charger module.
- Optional Battery Integration System for automatic recognition of battery modules and minimising size.

Ergonomy

- Multilingual LCD display and LEDs for rapid view of the UPS status and the operating log.

- Self diagnosis and fault messages.

Can be integrated into even the most demanding environments:

Computer

- Tower / 6U Rack convertible.
- Comprehensive range of Power Distribution Units for convenient power distribution within the rack.

Industrial

- Compatible with all types of generator set.
- Can be integrated into building management systems
- Steel casing
- Operating temperature up to 45°C
- Meets Marine vibration test requirements
- Optional supervision and remote control from UPS terminal control.



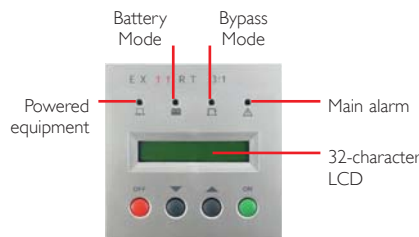
Comet EX RT tower 10 min runtime model. Hot-swappable battery and UPS modules.



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



Comet EX Network Pack model with Network Management Card and rack mounting kit for 19" cabinet (from 800 upto 1 200 mm depth).



Multilingual back-lit rotating display

■ MGE PowerServices™

1-year warranty, including battery.

■ Associated services(I)

Warranty extension

- Commissioning: startup of your installation conforming to the manufacturer's specifications.
- Teleservice: remote monitoring via the telephone system.
- Maintenance contracts: a range of convenient maintenance programmes.
- Site audit: load analysis and recommendations in line with the technical environment.

I: Depending on the country, visit www.mgeups.com/services.

■ Power management

Solution-Pac 2 software suite on CD

Supplied as standard to assure the local or remote supply to the servers.

Optional Network Management Card

Connect to Ethernet, alarms and supervision using a Web-interface.

Environment Sensor for SNMP/Web card

SNMP and Web monitoring of temperature + RH + status of 2 contacts

Monitoring using Enterprise Power Manager or the NMS

Supervision through Enterprise Power Manager or NMS integration kit: HP Openview, Tivoli Netview, CA Unicenter. Monitoring using Enterprise Power Manager or the integration kit

Jbus/Modbus card

For connecting the UPS to a building management system.

PRODUCT FEATURES & BENEFITS

- 1 Slot for MGE inter-unit communication card
- 2 9-pin D output connector
- 3 RJ11 port for remote emergency power off
- 4 Connectors for automatic detection of battery module(s)
- 5 RS 232 communication port
- 6 Connector for supplementary battery module power cable
- 7 Manual bypass for hot maintenance
- 8 Output connectors
- 9 Source switch I
- 10 Source 1 connector
- 11 Source 2 connector
- 12 Battery circuit breaker



Specifications

| | 5 kVA | 7 kVA | 11 kVA |
|--------------------------------------|--|-------------|--------|
| Performances | | | |
| Active power kVA / kW | 5 / 4(1) | 7 / 4.9 | 11 / 8 |
| Technology | on-line double conversion with PFC (Power Factor Correction) system(2) | | |
| Rated input voltage | 200/208/220/230/240/250V single phase 380/400/415V three phase | | |
| Input voltage range | (- 30 %; + 20 %) 230 V ; (-20 %, + 15 %) 400 V | | |
| Input, output frequency range | 40-70 Hz, 50 / 60 HZ autoselection, frequency converter as a standard | | |
| Output voltage / THDU | 200/208/230/240 /250 V +/- 2 %; THDU < 2 % | | |
| Overall efficiency | normal mode 91 %, eco mode 97 % | | |
| THDI | THDI < 5 % (3) | | |
| Crest factor / short circuit current | 3:1 / 100 A | 3:1 / 150 A | |
| Overload capacity | >150 % 500 ms; 150 % 30 s; 125 % 60 s; 110 % 120 s | | |
| Temperature operating | 45°C for 8 Hrs(4), 40°C continuous | | |

| Back-up times(5) at 70 % load | |
|--------------------------------------|---|
| from 10 up to 15 minutes | Standard : 1 power mod. 3U + 1 battery mod. EXB 3U = 6U |
| from 15 up to 20 minutes | Standard + 1 battery mod. EXB 3U = 9U |
| from 40 up to 65 minutes | Standard + 2 battery mod. EXB 3U = 12U |

| Connection | |
|-------------------|--|
| Input /output | terminal block for 13 mm ² (stranded cable) or 10 mm ² (solid cable) |

| Communication | |
|----------------------|--|
| Port type | 6 voltage free contacts DB9 2 A 48 V DC, 1 RS 232 , RJ11 for remote emergency power off |
| Slot | 1 slot for MGE inter-unit communication card |

| Standards and certification | |
|------------------------------------|---|
| Performance and safety | IEC 62040-1/IEC 60950/UL 1778 and CSA 22.2(2) |
| EMC | IEC 62040-2; EN 50091-2; FCC class A(2), EMC B level(6) |
| Certification | UL(2)/TÜV , GS mark,CB, C-Tick,CE, IEC 68-2-6 (vibration tests Marine approval) |

| Dimensions (H x W x D) in mm; weight (single phase input / three phase input) | | | |
|--|--|-------------------|-------------------|
| Comet EX RT standard backup tower | 444,5 x 261,2 x 700 | | |
| | 89,5 Kg | 88,3 Kg / 89,5 Kg | 94,2 Kg / 95,3 Kg |
| Comet EX RT standard backup Network Pack rack mounting | 261,2 (6U) x 444,5 x 700 | | |
| | 97,3 Kg | 96,1 Kg / 97,3 Kg | 102 Kg / 103,1 Kg |
| Comet EX RT Power module | 444,5 x 130,6 x 700 / 130,6 (3U) x 444,5 x 700 | | |
| | 24,2 Kg | 23 Kg / 24,2 Kg | 24,9 Kg / 26 Kg |
| Battery module Comet EXB RT | 444,5 x 130,6 x 650 / 130,6 (3U) x 444,5 x 650 | | |
| | 64,5 Kg | 64,5 Kg | 68,5 Kg |
| EX RT CLA module / EX RT Transformer | 130,6 (3U) x 444,5 x 650 / 12 Kg / 87 kg | | |

Part numbers

| Ratings | 5 kVA | | 7 kVA | | 11 kVA | |
|---|--------------|-------------|-----------------|-------------|-----------------|-------------|
| | single-phase | three-phase | single-phase | three-phase | single-phase | three-phase |
| Comet EX RT standard back-up time Tower | - | 68 054 | 68 070 | 68 074 | 68 110 | 68 114 |
| Network Pack Rack Format (7) | - | 68 056 | 68 072 | 68 076 | 68 112 | 68 116 |
| EXB RT battery module / EXB RT battery module with EPO built-in | - | | 68 078 / 68 079 | | 68 118 / 68 119 | |
| Comet EX RT Power module (for use with EXB or CLA module) | - | 68 057 | 68 075 | 68 077 | 68 115 | 68 117 |
| Rack kit for Comet EX RT Power module / Comet EXB RT and CLA | - | | 68 001 / 68 002 | | | |
| EX RT Transformer module | - | | 68 003 | | | |
| Comet EX RT CLA module (2 to 8 hours) | - | | 68 004 | | | |
| EX RT Battery Integration System (8) | - | | 68 005 | | | |
| EMC B level filter module | - | - | 68 008 | - | 68 008 | - |
| Comet PDU 19" rack format (9) | - | | 66 857 | | | |
| 1.8 m battery connection cable (10) | - | | 68 006 | | | |
| UPS Control, remote UPS monitor display | - | | 66 080 | | | |

1: single phase input not available for 5kVA. 2: applicable to single phase models. 3: single phase input value. 4: at nominal output power for 230 V or 400V input and 230V output. 5: typical values after 3 discharge cycles, batteries 3-5 years, longer backup times available using the CLA or EXB module, ask for details. 6: option for single phase model. 7: the Network Pack version comprises standard back-up time unit + Network Management. Card + rack mounting kit 8: trolley capacity 8 modules max, casters, adjustable feet. 9: 12 sockets 4 X IEC 16 A + 8 X IEC 10 A. 10: for non standard inter-module spacing.

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