

High performances UPS for single phase applications Comet EX RT

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

Perfect for rack servers enclosures
and industrial environment

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.

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



Comet EX Network Pack model with
Network Management Card and rack
mounting kit for 19" cabinet (from 800 up
to 1200 mm depth).

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.



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

Top of the range protection ideal for servers:

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



Can be integrated into high density racks.



Ideal for critical applications requiring
high operating continuity.



Compatible with the most demanding environments.

M G E

Office Protection Systems

An Eaton Brand

Customer Service & Support

1-year warranty, including battery.

Associated services ⁽¹⁾

- 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.

1: Depending on the country, visit www.mgeops.com/services.

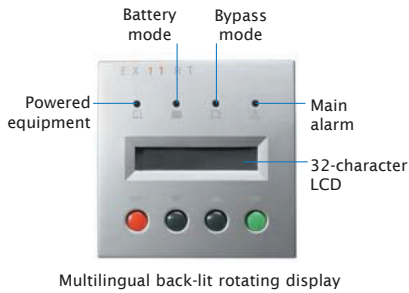
Specifications

	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		
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⁾ /TUV, 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		

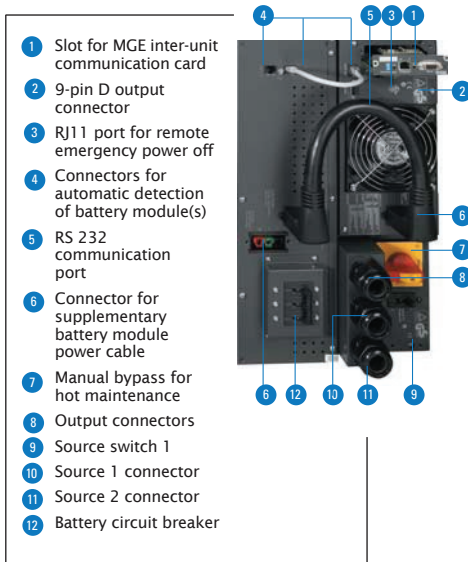
Part numbers

Ratings	5 kVA		7 kVA		11 kVA	
	single-phase	three-phase	single-phase	three-phase	single-phase	three-phase
Input voltage						
Comet EX RT standard back-up time Tower	M68 050	M68 054	M68 070	M68 074	M68 110	M68 114
EXB RT battery module / EXB RT battery module with EPO built-in	M68 078 / M68 079				M68 118 / M68 119	
Comet EX RT Power module (for use with EXB or CLA module)	-	M68 057	M68 075	M68 077	M68 115	M68 117
Rack kit for Comet EX RT Power module / Comet EXB RT and CLA	M68 001 / M68 002					
EX RT Transformer module	M68 003					
Comet EX RT CLA module (2 to 8 hours)	-		M68 004			
EX RT Battery Integration System ⁽⁸⁾	-		M68 005			
EMC B level filter module	-	-	M68 008	-	M68 008	-
Comet PDU 19" rack format ⁽⁹⁾	M66 857					
1.8 m battery connection cable ⁽¹⁰⁾	M68 006					

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.



Multilingual back-lit rotating display



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

Power management

Solution-Pac 2 software suite on CD
Supplied as standard to assure the local or remote supply to the servers.

Optional ConnectUPS SNMP/Webcard
Connect to Ethernet, alarms and supervision using a Web-interface.

EMP Environmental Monitoring Probe
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.