

Eaton EX RT

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



Eaton EX RT



Battery Integration system

Advanced protection for:

- Rack servers enclosures and industrial environment



Double conversion (on-line)

High performance UPS for single phase applications.

Maximum 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

Ergonomics

- 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



Powering Business Worldwide

TECHNICAL SPECIFICATION	7 kVA	11 kVA
Technology	online double conversion with PFC (Power Factor Correction) system ⁽¹⁾	
Active power kVA / kW	7 / 4.9	11 / 8
Rated input voltage	200/208/220/230/240/250V single phase or 380/400/415V three phase	
Input voltage range	(- 30%; + 20%) 230 V; (- 20%, + 15%) 400 V	(- 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%	200/208/230/240 /250 V +/- 2%; THDU < 2%
Overall efficiency	normal mode 91%, eco mode 97%	normal mode 91%, eco mode 97%
THDI	THDI < 5% ⁽²⁾	THDI < 5% ⁽²⁾
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	>150% 500 ms; 150% 30 s; 125% 60 s; 110% 120 s
Temperature operating	45°C for 8 Hrs ⁽³⁾ , 40°C continuous	45°C for 8 Hrs ⁽³⁾ , 40°C continuous
Back-up times⁽⁴⁾ at 70% load		
from 10 up to 15 min	Standard: 1 power mod. 3U + 1 battery mod. EXB 3U = 6U	Standard: 1 power mod. 3U + 1 battery mod. EXB 3U = 6U
from 15 up to 20 min	Standard + 1 battery mod. EXB 3U = 9U	Standard + 1 battery mod. EXB 3U = 9U
from 40 up to 65 min	Standard + 2 battery mod. EXB 3U = 12U	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 inter-unit communication card	1 slot for inter-unit communication card
Standard and certification		
Performance and safety	IEC 62040-1/IEC 60950/UL 1778 and CSA 22.2 ⁽¹⁾	IEC 62040-1/IEC 60950/UL 1778 and CSA 22.2 ⁽¹⁾
EMC	IEC 62040-2; EN 50091-2; FCC class A ⁽¹⁾ , EMC B level ⁽⁵⁾	IEC 62040-2; EN 50091-2; FCC class A ⁽¹⁾ , EMC B level ⁽⁵⁾
Certification	UL(2)/TÜV, GS mark,CB, C-Tick,CE, IEC 68-2-6 (vibration tests Marine approval)	
Dimension (HxWxD in mm) ; weight (single phase input / three phase input)		
EX RT standard backup tower	444.5x261.2x700 88.3 kg / 89.5 kg	444.5x261.2x700 94.2 kg / 95.3 kg
EX RT standard backup Network Pack rack mounting	261.2 (6U) x444.5x700 96.1 kg / 97.3 kg	261.2 (6U) x444.5x700 102 kg / 103.1 kg
Comet EX RT Power module	444.5x130.6x700 / 130.6 (3U) x444.5x700 23 kg / 24.2 kg	444.5x130.6x700 / 130.6 (3U) x444.5x700 24.9 kg / 26 kg
Battery module EXB RT	444.5x130.6x650 / 130.6 (3U) x444.5x650 64.5 kg	444.5x130.6x650 / 130.6 (3U) x444.5x650 68.5 kg
EX RT CLA module / EX RT Transformer	130.6 (3U) x444.5x650 / 12 kg / 87 kg	130.6 (3U) x444.5x650 / 12 kg / 87 kg
Part number		
Single phase	68070	68110
Three phase	68074	68114
EXB	68078	68118

In the interests of continuous product improvement all specifications are subject to change without notice.

1: applicable to single phase models.

2: single phase input value.

3: at nominal output power for 230 V or 400V input and 230V output.

4: typical values after 3 discharge cycles, batteries 3-5 years, longer backup times available using the CLA or EXB module, ask for details. 5: option for single phase model.

SINGAPORE
Tel : +65 6825 1684
Fax : +65 6825 1689
EatonSEA@eaton.com

INDONESIA
Tel : +62 21 522 6181
Fax : +62 21 522 6182

VIETNAM
Hanoi
Tel : +84 4 3936 5303
Fax : +84 4 3936 5307

MALAYSIA
Tel : +603 7804 3618
Fax : +603 7803 6193

Ho Chi Minh
Tel : +84 8 6255 6737
Fax : +84 8 6255 6801

THAILAND
Tel : +66 2575 0530
Fax : +66 2575 1579



Eaton is a trade name, trademark and/or service mark of Eaton Corporation or its subsidiaries and affiliates.

© 2008 Eaton Corporation
All Rights Reserved
Printed in Singapore
March 2012