

Eaton EX RT

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

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



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
- Automatic recognition of battery modules and easy battery installation with battery integration system

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



Advanced protection for: Rack servers enclosures and industrial environment

Battery Integration system



Powering Business Worldwide

Eaton EX RT UPS



- 1 Slot for Eaton minislot 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 EXB modules

- 7 Manual bypass for hot maintenance
- 8 Output connectors
- 9 Source switch 1
- 10 Source 1 connector
- 11 Source 2 connector
- 12 Battery circuit breaker

Technical Specifications

	5 kVA	7 kVA	11 kVA
Active power kVA / kW	5 kVA / 4 kW	7 kVA / 4.9 kW	11 kVA / 8 kW
Technology	On-line double conversion with PFC (Power Factor Correction) system (applicable to single phase models)		
Rated input voltage	200/208/220/230/240/250 V 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% (single phase input value)		
Crest factor / short circuit current	3:1 / 100 A	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 (at nominal output power for 230 V or 400V input and 230V output), 40°C continuous		
Back-up times* at 70% load			
From 10 up to 15 minutes	Standard: 1 x power mod. 3U + 1 x 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 x voltage free contacts DB9 2 A 48 V DC, 1 x RS 232, RJ11 for remote emergency power off		
Slot	1 slot for communication card		
Standards and certification			
Performance and safety	IEC 62040-1/IEC 60950/UL 1778 and CSA 22.2 (applicable to single phase models)		
EMC	IEC 62040-2; EN 50091-2; FCC class A (applicable to single phase models), EMC B level (option for single phase model)		
Certification	UL (applicable to single phase models)/TÜV, GS mark,CB, C-Tick,CE, IEC 68-2-6 (vibration tests Marine approval)		
Dimensions H x W x D / Weight (single phase input / three phase input)			
Eaton EX RT standard backup tower	444.5 x 261.2 x 700 mm 89.5 kg	444.5 x 261.2 x 700 mm 88.3 kg / 89.5 kg	444.5 x 261.2 x 700 mm 94.2 kg / 95.3 kg
Eaton EX RT standard backup Network Pack rack mounting	261.2 (6U) x 444.5 x 700 mm 97.3 kg	261.2 (6U) x 444.5 x 700 mm 96.1 kg / 97.3 kg	261.2 (6U) x 444.5 x 700 mm 102 kg / 103.1 kg
Eaton EX RT Power module	444.5 x 130.6 x 700 / 130.6 (3U) x 444.5 x 700 mm 24.2 kg	444.5 x 130.6 x 700 / 130.6 (3U) x 444.5 x 700 mm 23 kg / 24.2 kg	444.5 x 130.6 x 700 / 130.6 (3U) x 444.5 x 700 mm 24.9 kg / 26 kg
Battery module Eaton EXB RT	444.5 x 130.6 x 650 / 130.6 (3U) x 444.5 x 650 mm 64.5 kg	444.5 x 130.6 x 650 / 130.6 (3U) x 444.5 x 650 mm 64.5 kg	444.5 x 130.6 x 650 / 130.6 (3U) x 444.5 x 650 mm 68.5 kg
EX RT CLA module / EX RT Transformer	130.6 (3U) x 444.5 x 650 mm / 12 kg / 87 kg	130.6 (3U) x 444.5 x 650 mm / 12 kg / 87 kg	130.6 (3U) x 444.5 x 650 mm / 12 kg / 87 kg
Customer Service & Support			
1 year warranty, including battery	Free standard replacement for faulty units, including the batteries		
Warranty+	Optional 3-years warranty (depending on the country please visit www.eaton.com/powerquality)		

* (typical values after 3 discharge cycles, batteries 3-5 years, longer backup times available using the CLA or EXB module, ask for details)

Part Numbers

	EX RT 5		EX RT 7		EX RT 11	
Input voltage	Single-phase	Three-phase	Single-phase	Three-phase	Single-phase	Three-phase
Eaton EX RT Power module (for use with EXB or CLA module)	M68055	M68057	M68075	M68077	M68115	M68117
EXB RT battery module / EXB RT battery module with EPO built-in	M68078 / 68079	M68078 / M68079	M68078 / M68079	M68078 / M68079	M68118 / M68119	M68118 / M68119
Rack kit for Eaton EX RT Power module / Eaton EXB RT and CLA	M68001 / M68002	M68001 / M68002	M68001 / M68002	M68001 / M68002	M68001 / M68002	M68001 / M68002
Eaton EX RT Transformer module	M68003	M68003	M68003	M68003	M68003	M68003
Eaton EX RT CLA module (2 to 8 hours)	M68004	M68004	M68004	M68004	M68004	M68004
EX RT Battery Integration System ⁽²⁾	M68005	M68005	M68005	M68005	M68005	M68005
EMC B level filter module	/	/	M68008	/	M68008	/
EX RT PDU 19" rack format ⁽³⁾	M66857	M66857	M66857	M66857	M66857	M66857
1.8 m battery connection cable ⁽⁴⁾	M68006	M68006	M68006	M68006	M68006	M68006

2: trolley capacity 8 modules max, casters, adjustable feet. 3: 12 sockets 4 X IEC 16 A + 8 X IEC 10 A. 4: for non standard inter-module spacing.



Eaton Industries Pty. Ltd.
Electrical Group
Head Office:
10 Kent Road Mascot,
NSW 2020 Australia
1300 UPS UPS (1300 877 877)
www.eaton.com/powerquality

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