

# Eaton 9SX UPS

- 1 Remote Off/On and Remote Power Off connectors
- 2 Slot for Network-MS, ModBus-MS or Relay-MS cards
- 3 External battery module (EBM) connector with automatic detection (RJ11)



Eaton 9SX 11 kVA

- 4 DB 9 with output contacts
- 5 USB and serial ports
- 6 Input/Output connections

## TECHNICAL SPECIFICATIONS

	5 kVA	6 kVA	8 kVA	11 kVA
Rating (kVA/kW)	5 kVA/4.5 kW	6 kVA/5.4 kW	8 kVA/7.2 kW	11 kVA/10 kW
<b>Electrical Characteristics</b>				
Technology	On-line double-conversion with Power Factor Correction (PFC) system			
Nominal voltage	200/208/220/230/240 V		200/208/220/230/240 V/250 V	
Input voltage range	176-276 V without derating (up to 100–276 V with derating)			
Output voltage/THDU	200/208/220/230/240 V +/- 1%; THDU <2%		200/208/220/230/240/250 V +/- 1%; THDU <2%	
Input frequency range/THDI	40-70 Hz, 50/60 Hz autoselection, frequency converter as standard, THDI < 5%			
Efficiency	Up to 94% in Online mode, 98% in Hi-Efficiency mode		Up to 95% in Online mode, 98% in Hi-Efficiency mode	
Crest factor/short circuit current	3:1/90 A	3:1/90 A	3:1/120 A	3:1/150 A
Overload capacity	102–110% : 120 s, 110–125%: 60 s, 125–150%: 10 s, >150%: 500 ms		102–110% : 120 s, 110–125%: 60 s, 125–150%: 10 s, >150%: 900 ms	
<b>Connections</b>				
Input	Terminal block (up to 10 mm <sup>2</sup> )		Terminal block (up to 16 mm <sup>2</sup> )	
Outputs	Terminal block + 2 controlled groups of 4 IEC C13 (10 A) + 2 IEC C19 (16 A)		Terminal block	
<b>Batteries</b>				
Typical backup times at 50 and 70% load*				
9SX	13/10 min	11/8 min	15/10 min	9/5 min
9SX + 1 EBM	60/40 min	48/34 min	38/25 min	22/15 min
9SX + 4 EBM	220/150 min	170/120 min	120/82 min	80/55 min
Battery management	ABM <sup>®</sup> and Temperature compensated charging method (user selectable), automatic battery test, deep discharge protection, automatic recognition of external battery units.			
<b>Communication</b>				
Communication ports	1 USB port, 1 RS232 serial port (USB and RS232 ports cannot be used simultaneously), 4 dry contacts (DB9), 1 mini terminal block for remote On/Off and 1 for remote power Off.			
Communication slot	1 slot for Network-MS card, ModBus-MS or Relay-MS cards.			
<b>Operating conditions, standards and approvals</b>				
Operating temperature	0 to 40°C continuous			
Noise level	<45 dB	<45 dB	<48 dB	<50 dB
Safety	IEC/EN 62040-1, UL 1778, CSA 22.2			
EMC, performance	IEC/EN 62040 -2 , FCC Class A, IEC/EN 62040-3 (Performance)			
Approvals	CE, CB report (TUV), UL (5 & 6kVA only)			
<b>Dimensions H x W x D/Weight</b>				
UPS	440(19 ")*130(3U)*685 mm/48 kg	440(19 ")*130(3U)*685 mm/48 kg	440(19 ")*260(6U)*700 mm/84 kg	440(19 ")*260(6U)*700 mm/86 kg
EBM	440(19 ")*130(3U)*645 mm/68 kg	440(19 ")*130(3U)*645 mm/68 kg	440(19 ")*130(3U)*680 mm/65 kg	440(19 ")*130(3U)*680 mm/65 kg
Power module	–	–	440(19 ")*130(3U)*700 mm/19 kg	440(19 ")*130(3U)*700 mm/21 kg
<b>Customer Service and Support</b>				
Warranty	2 years warranty			

\* Runtimes are shown at 0.7 power factor. Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc

Parts Numbers	9SX 5 kVA	9SX 6 kVA	9SX 8 kVA	9SX 11 kVA
UPS*	–	–	9SX8Ki	9SX11Ki
UPS with Rack Kit*	9SX5KiRT	9SX6KiRT	9SX8KiRT	9SX11KiRT
EBM	–	–	9SXEBM240	9SXEBM240
EBM with Rack Kit	9SXEBM180RT	9SXEBM180RT	–	–
Power Module	–	–	9SX8KiPM	9SX11KiPM
HotSwap Maintenance ByPass	MBP6Ki	MBP6Ki	MBP11Ki	MBP11Ki
Transformer Module	TFMR11Ki	TFMR11Ki	TFMR11Ki	TFMR11Ki
Supercharger with Rack Kit	–	–	SC240RT	SC240RT
1.8m Battery Connection Cable	EBMCBL180	EBMCBL180	EBMCBL240	EBMCBL240
Battery Integration System	BINTSYS	BINTSYS	BINTSYS	BINTSYS
Rack Kit	9RK	9RK	9RK	9RK

\* For 8 & 11 kVA UPS: Power Module + EBM

