

Network and server
Single phase UPS

Eaton 9SX UPS- Cybersecurity

5/6/8/11 kVA



9SX11KI



9SX6KI

Advanced protection for:

- Infrastructure, Industrial and Medical
- IT, Networking, Storage and Telecom



High performance Online double-conversion UPS

Performance and Efficiency

- Double-conversion topology. The Eaton 9SX constantly monitors power conditions and regulates voltage and frequency.
- With up to 95% efficiency in online double-conversion mode the 9SX provides the highest efficiency level in its class to reduce energy & cooling costs.
 - With a 0.9 power factor the 9SX delivers 28% more power than UPS in its class. It powers more servers than other UPSs with equivalent VA ratings and lower power factors.

Availability and Flexibility

- The internal bypass allows service continuity in case of internal fault. Batteries are hot-swappable from the front panel without powering down critical systems.
- With its tower or rack/tower versatile form factor the 9SX can be installed in any environment (rack kit provided as standard on RT versions).
- Stronger, longer battery life: Eaton ABM® battery management technology uses an innovative three-stage charging technique that extends battery life by up to 50%.
- More runtime can be added with external hot-swappable battery modules, able to run systems for hours if necessary. The additional battery modules are automatically recognized by the UPS.

Manageability

- The new graphical LCD provides clear information on the UPS's status and measurements on a single screen (in seven languages). LCD display position can be adjusted to offer the best viewable angle for tower and rack usage.
- The 9SX can meter energy consumption. kWh values can be monitored using the LCD or Eaton's Intelligent Power Software Suite.
- Load segment control enables prioritised shutdowns of nonessential equipment to maximise battery runtime for critical devices. It can also be used to remotely reboot locked-up equipment or to manage scheduled shutdowns and sequential start-ups.
- The 9SX offers Serial, USB and relay (dry contacts) connectivity, plus an extra slot for an optional card (Modbus, Network or Relay). 9SX also provides Remote Power off function. Eaton's Intelligent Power Software is included with each UPS.

Eaton 9SX UPS - Cybersecurity

- 1 Remote Off/On and Remote Power Off connectors
- 2 Slot for Management card
- 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
Format	Tower or RT (Rack/Tower)	Tower or RT (Rack/Tower)	RT (Rack/Tower)	RT (Rack/Tower)

Electrical characteristics

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 176-276V without derating (RT models: 100-276V with derating, Tower models: 120-276V with derating)
 Input frequency range 40-70 Hz, 50/60 Hz autoselection, frequency converter as standard
 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 Tower models: 102-110% : 120s, 110-125%: 60s, 125-150%: 10s, >150%: 500ms
 RT models: 102-130% : 120s, 130-150%: 30s, 125-150%: 10s, >150%: 100ms 102-110% : 120 s, 110-125%: 60 s, 125-150%: 10 s, >150%: 900 ms

Connections

Input Terminal block (up to 10 mm²) Terminal block (up to 16 mm²)
 Outputs Tower models: Terminal block
 RT models: : Terminal block + 2 controlled groups of 4 IEC C13 (10A) + 2 IEC C19 (16A) Terminal block

Batteries

Typical backup times at 50 and 70% load*
 9SX Tower: 30/19 min RT: 13/10 min Tower: 24/15 min RT: 11/8 min 15/10 min 9/5 min
 9SX + 1 EBM Tower: 120/70 min, RT: 60/40 min Tower: 90/57 min RT: 48/34 min 38/25 min 22/15 min
 9SX + 4 EBM Tower: 485/275 min, RT: 220/150 min Tower: 385/220 min, RT: 170/120 min 120/82 min 80/55 min
 Battery management ABM@ & Temperature compensated charging method, Automatic battery test, deep discharge protection, automatic recognition of external battery units

Communication

Communication ports USB and Serial ports (cannot be used simultaneously), Dry contact, 1 Remote Power Off (all models), 1 Remote On/Off (RT format models)
 Communication slot 1 slot for Network-M2, Network-MS, ModBus-MS or Relay-MS cards.

Operating conditions, standards and approvals

Operating temperature 0 to 40°C continuous
 Typical noise level <46dB <46dB <48 dB <50 dB
 Safety IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 & 6kVA RT only)
 EMC performance IEC/EN 62040-2, IEC/EN 62040-3
 Approvals CE, CB report (TUV), UL (5 & 6kVA RT only)

Dimensions H x W x D/Weight

UPS Tower: 575x244x542mm/65.5kg, RT: 440(19")x130(3U)x685mm/48kg 440(19")*260(6U)*700mm/84kg 440(19")x260(6U)x700 mm/86 kg
 EBM Tower: 575x244x542mm/104.9kg, RT: 440(19")x130(3U)x645mm/68kg 440(19")*130(3U)*680mm/65kg 440(19")x130(3U)x680 mm/65 kg
 Power module - 440(19")x130(3U)x700 mm/19 kg 440(19")x130(3U)x700 mm/21 kg

Customer service and support

Warranty 2 years warranty 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 (Tower) 9SX5KI		9SX6KI		
UPS (RT format)*		9SX8KI 9SX6KIRT 9SX8KIRT	9SXEBM240T	9SX11KI
UPS (RT with rack kit)* 9SX5KIRT		9SXEBM240 9SXEBM180RT		9SX11KIRT
EBM (Tower) 9SXEBM240T		9SX8KIPM MBP6KIMBP11KI -SC240RT Tower:		
EBM (RT format)		EBMCBL240T, RT: EBMCBL180EBMCBL240 -9RK		9SXEBM240
EBM (RT with rack kit) 9SXEBM180RT				
Power Module				9SX11KIPM
HotSwap Maintenance ByPass MBP6KI				MBP11KI
Supercharger with Rack Kit				SC240RT
1.8m Battery Connection Cable Tower: EBMCBL240T, RT: EBMCBL180				EBMCBL240
Rack Kit				9RK

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