



Network and server Single phase UPS

Eaton 9SX UPS - Cybersecurity

5/6/8/11 kVA



9SX11KI



9SX6KI

Advanced protection for:

- Infrastucture, 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)



- 4 DB 9 with output contacts
- 5 USB and serial ports
- 6 Input/Ouput 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 F	actor 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: 1	120-276V with derating)	
Input frequency range	40-70 Hz, 50/60 Hz autoselection, frequen	cy converter as standard		
Efficiency	Up to 94% in Online mode, 98% in Hi-E	fficiency mode	Up to 95% in Online mode, 98% ir	Hi-Efficiency mode
Crest factor/short circuit current		3:1/90 A	3:1/120 A	3:1/150 A
Overload capacity	Tower models: 102-110% : 120s, 110-125 RT models: 102-130% : 120s, 130-150%:	%: 60s, 125-150%: 10s, >150%: 500ms 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 mm ²)		Terminal block (up to 16 mm ²)	
Outputs	Tower models: Terminal block RT models: : Terminal block + 2 controlled g	roups of 4 IEC C13 (10A) + 2 IEC C19 (16A)	Terminal block	
Batteries				
Typical backup times at 50 and 3	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 cha	irging method , Automatic battery test, de	eep discharge protection, automatic	recognition of external battery un
Communication	- provide the second		5-1	
COMMUNICATION				
	USB and Serial ports (cannot be used si	multaneously) Dry contact 1 Remote Por	wer Off (all models) 1 Remote On/O	ff (BT format models)
Communication ports		multaneously), Dry contact, 1 Remote Po lodBus-MS or Belay-MS cards	wer Off (all models), 1 Remote On/O	ff (RT format models)
Communication ports Communication slot	1 slot for Network-M2, Network-MS, N		wer Off (all models), 1 Remote On/O	ff (RT format models)
Communication ports Communication slot Operating conditions, stand	1 slot for Network-M2, Network-MS, M lards and approvals		wer Off (all models), 1 Remote On/O	ff (RT format models)
Communication ports Communication slot Operating conditions, stand Operating temperature	1 slot for Network-M2, Network-MS, N lards and approvals 0 to 40°C continuous	lodBus-MS or Relay-MS cards.		
Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level	1 slot for Network-M2, Network-MS, N lards and approvals 0 to 40°C continuous <46dB	lodBus-MS or Relay-MS cards.	wer Off (all models), 1 Remote On/O <48 dB	ff (RT format models) <50 dB
Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety	1 slot for Network-M2, Network-MS, N lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5	lodBus-MS or Relay-MS cards.		
Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance	1 slot for Network-M2, Network-MS, N lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 -2 , IEC/EN 62040-3	IodBus-MS or Relay-MS cards. <46dB i & 6kVA RT only)		
Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance Approvals	1 slot for Network-M2, Network-MS, N lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 -2 , IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or	IodBus-MS or Relay-MS cards. <46dB i & 6kVA RT only)		
Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei	1 slot for Network-M2, Network-MS, N lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 -2, IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght	IodBus-MS or Relay-MS cards. <46dB 5 & 6kVA RT only) Ily)	<48 dB	<50 dB
Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei UPS	1 slot for Network-M2, Network-MS, M lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 -2, IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght Tower: 575x244x542mm/65.5kg, RT: 444	IodBus-MS or Relay-MS cards. <46dB 5 & 6kVA RT only) Ily) 0(19")x130(3U)x685mm/48kg	<48 dB 440(19")*260(6U)*700mm/84kg	<50 dB 440(19 '')x260(6U)x700 mm/86 kg
Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei UPS EBM	1 slot for Network-M2, Network-MS, N lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 -2, IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght	IodBus-MS or Relay-MS cards. <46dB 5 & 6kVA RT only) Ily) 0(19")x130(3U)x685mm/48kg	<48 dB 440(19")*260(6U)*700mm/84kg 440(19")*130(3U)*680mm/65kg	<50 dB 440(19 ")x260(6U)x700 mm/86 kg 440(19 ")x130(3U)x680 mm/65 kg
Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei UPS EBM Power module	1 slot for Network-M2, Network-MS, M lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 -2 , IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght Tower: 575x244x542mm/65.5kg, RT: 44 Tower: 575x244x542mm/104,9kg, RT: 44	IodBus-MS or Relay-MS cards. <46dB 5 & 6kVA RT only) Ily) 0(19")x130(3U)x685mm/48kg	<48 dB 440(19")*260(6U)*700mm/84kg	<50 dB 440(19 '')x260(6U)x700 mm/86 kg
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Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei UPS EBM Power module Customer service and supp Warranty * Runtimes are shown at 0.7 power facto Parts numbers UPS (Tower)	1 slot for Network-M2, Network-MS, N lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 - 2, IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght Tower: 575x244x542mm/65.5kg, RT: 44 Tower: 575x244x542mm/104,9kg, RT: 44 - ort 2 years warranty or. Backup times are approximate and may vary with 9SX 5 kVA	IodBus-MS or Relay-MS cards. <46dB 5 & 6kVA RT only) Ily) D(19")x130(3U)x685mm/48kg 40(19")x130(3U)x645mm/68kg - equipment, configuration, battery age, temperature, 9SX 6 kVA	<48 dB 440(19")*260(6U)*700mm/84kg 440(19")*130(3U)*680mm/65kg 440(19")x130(3U)x700 mm/19 kg etc	<50 dB 440(19 '')x260(6U)x700 mm/86 kg 440(19 '')x130(3U)x680 mm/65 kg 440(19 '')x130(3U)x700 mm/21 kg
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Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei UPS EBM Power module Customer service and supp Warranty * Runtimes are shown at 0.7 power facto Parts numbers UPS (Tower) UPS (Tower) UPS (RT format)* UPS (RT with rack kit)*	1 slot for Network-M2, Network-MS, M lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 - 2, IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght Tower: 575x244x542mm/65.5kg, RT: 44 Tower: 575x244x542mm/104,9kg, RT: 44 - ort 2 years warranty r. Backup times are approximate and may vary with 9SX 5 kVA 9SX5KI	IodBus-MS or Relay-MS cards. <46dB	<48 dB 440(19")*260(6U)*700mm/84kg 440(19")*130(3U)*680mm/65kg 440(19")x130(3U)x700 mm/19 kg etc 9SX 8 kVA - 9SX8KI	<50 dB 440(19 ")x260(6U)x700 mm/86 kg 440(19 ")x130(3U)x680 mm/65 kg 440(19 ")x130(3U)x700 mm/21 kg 9SX 11 kVA - 9SX 11 kVA
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Communication ports Communication slot Operating conditions, stand Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei UPS EBM Power module Customer service and supp Warranty * Runtimes are shown at 0.7 power facto Parts numbers	1 slot for Network-M2, Network-MS, M lards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 - 2, IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght Tower: 575x244x542mm/65.5kg, RT: 44 Tower: 575x244x542mm/104,9kg, RT: 44 Tower: 575x24x542mm/104,9kg, RT:	IodBus-MS or Relay-MS cards. <46dB	<48 dB 440(19")*260(6U)*700mm/84kg 440(19")*130(3U)*680mm/65kg 440(19")x130(3U)x700 mm/19 kg etc 9SX 8 kVA - 9SX8KI 9SX8KI 9SX8KIRT - 9SXEBM240	<50 dB 440(19 ")x260(6U)x700 mm/86 kg 440(19 ")x130(3U)x680 mm/65 kg 440(19 ")x130(3U)x700 mm/21 kg 9SX 11 kVA - 9SX 11 kVA - 9SX11KI 9SX11KIRT - 9SXEBM240
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Communication ports Communication slot Operating conditions, stant Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei UPS EBM Power module Customer service and supp Warranty * Runtimes are shown at 0.7 power facto Parts numbers UPS (Tower) UPS (Tower) UPS (RT format)* UPS (RT format)* UPS (RT format) EBM (RT format) EBM (RT format) EBM (RT with rack kit) Power Module HotSwap Maintenance ByPass	1 slot for Network-M2, Network-MS, M ards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 - 2, IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght Tower: 575x244x542mm/65.5kg, RT: 44 Tower: 575x244x542mm/104,9kg, RT: 44 Tower: 575x244x542mm/104,9kg, RT: 44 	odBus-MS or Relay-MS cards. <46dB	448 dB 440(19")*260(6U)*700mm/84kg 440(19")*130(3U)*680mm/65kg 440(19")x130(3U)x700 mm/19 kg etc 9SX 8 kVA - 9SX 8 kVA - 9SX8KI 9SX8KIRT - 9SXEBM240 - 9SX8KIPM	<50 dB 440(19 ")x260(6U)x700 mm/86 kg 440(19 ")x130(3U)x680 mm/65 kg 440(19 ")x130(3U)x700 mm/21 kg 9SX 11 kVA - SX11KI 9SX11KIRT - 9SX211KIRT - 9SX211KIRT - 9SX11KIRT - 9SX11KIRT - 9SX11KIRT - 9SX11KIRT
Communication ports Communication slot Operating conditions, stant Operating temperature Typical noise level Safety EMC, performance Approvals Dimensions H x W x D/Wei UPS EBM Power module Customer service and supp Warranty * Runtimes are shown at 0.7 power facto Parts numbers UPS (Tower) UPS (RT format)* UPS (RT format)* UPS (RT with rack kit)* EBM (Tower) EBM (RT format) EBM (RT format) EBM (RT with rack kit) Power Module HotSwap Maintenance ByPass Supercharger with Rack Kit	1 slot for Network-M2, Network-MS, M ards and approvals 0 to 40°C continuous <46dB IEC/EN 62040-1, UL 1778 & CSA 22.2 (5 IEC/EN 62040 - 2, IEC/EN 62040-3 CE, CB report (TUV), UL (5 & 6kVA RT or ght Tower: 575x244x542mm/65.5kg, RT: 44 Tower: 575x244x542mm/104,9kg, RT: 44 Tower: 575x244x542mm/104,9kg, RT: 44 	odBus-MS or Relay-MS cards. <46dB	448 dB 440(19")*260(6U)*700mm/84kg 440(19")*130(3U)*680mm/65kg 440(19")x130(3U)x700 mm/19 kg etc 9SX 8 kVA - 9SX 8 kVA - 9SX8KI 9SX8KIRT - 9SX8KIRT - 9SX8KIPM MBP11KI	<50 dB 440(19 ")x260(6U)x700 mm/86 kg 440(19 ")x130(3U)x680 mm/65 kg 440(19 ")x130(3U)x700 mm/21 kg 9SX 11 kVA - 9SX 11 kVA - 9SX11KIRT - 9SX211KIRT - 9SX11KIRT -

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