Eaton 9PX UPS

5/6/8/11 kVA

Rack/Tower versatile

9PX 1:1 is an Energy Star® qualified UPS

9PX 11 kVA with maintenance bypass

Advanced protection for:

- Small and Medium Datacentre
- IT, Networking, Storage and Telecom
- Infrastucture, Industrial and Medical

Energy efficient power protection

Performance and Efficiency

- Double-conversion topology. The Eaton 9PX constantly monitors power conditions and regulates voltage and frequency.
- With up to 95% efficiency in online double-conversion mode and 98% in high-efficiency mode the 9PX provides the highest efficiency level in its class to reduce energy and cooling costs.
- With a 0.9 power factor the 9PX delivers 28% more power than any UPS in its class. It powers more servers than other UPSs with equivalent VA ratings and lower power factors.
- With a RT (Rack/tower) versatile form factor the 9PX is the most compact solution in its class delivering up to 5400 W in only 3U and 10 kW in only 6U.

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 9PX can meter energy consumption. kWh values can be monitored using the LCD or Eaton's Intelligent Power Software.
- 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 network equipment or to manage scheduled shutdowns and sequential start-ups.
- The 9PX offers Serial, USB and relay connectivity, plus an extra slot for an optional card (Network card delivered as standard on Netpack version). Eaton's Intelligent Power Software is compatible with all major OS including virtualisation software such as VMware and Hyper-V is included with each UPS.

Availability and Flexibility

- The internal bypass allows service continuity in case of internal fault, a maintenance bypass is also available (as standard on HotSwap version) for easy replacement of the UPS without powering down critical systems.
- The 9PX can be paralleled to achieve twice the power of unitary product using HotSync technology, without extra cost on the initial purchase.
- 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 up to 12 external hot-swappable battery modules, able to run systems for hours if necessary. The additional battery modules are automatically recognised by the UPS.
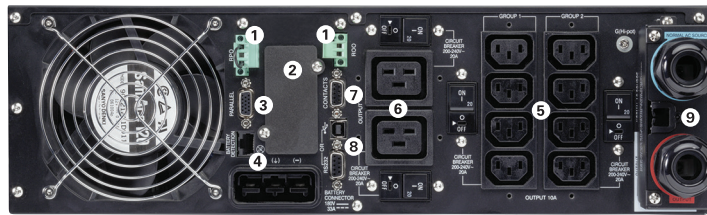

Powering Business Worldwide

Eaton 9PX UPS

1 Remote Off/On and Remote Power Off connectors

2 Slot for Network-MS, ModBus-MS or Relay-MS cards

3 Parallel operation port (DB15)

4 External battery module (EBM) connector with automatic detection (RJ11)

5 8 IEC 10 A sockets (2 groups of 4 manageable sockets) with cable retention system

6 2 IEC 16 A sockets with cable retention system

7 DB 9 with output contacts

8 USB and serial ports

9 Input/Ouput connection

Eaton 9PX 6 kVA 1:1

Technical specifications

	5 kVA 1:1	6 kVA 1:1	6 kVA 3:1	8 kVA 1:1 or 3:1	11 kVA 1:1 or 3:1
Rating (kVA/kW)	5 kVA/4.5 kW	6 kVA/5.4 kW	6 kVA/5.4 kW	8 kVA/7.2 kW	11 kVA/10 kW
Electrical characteristics					
Technology	On-line double-conversion with Power Factor Correction (PFC) system				
Input voltage	200/208/220/230/240 V 1:1		200/208/220/230/240 V/250 V 1:1, 380/400/415 3:1		
Input voltage range	176-276 V without derating (up to 100-276 V with derating) 1:1, 305 V-480 V without derating (up to 175 V-480 V with derating) 3:1				
Output voltage/THDU	200/208/220/230/240 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	
Short circuit current	90 A	90 A	90 A	120 A	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		
Connections					
Input	Terminal block (up to 10 mm^2)		Terminal block (up to 16 mm^2)		
Outputs	Terminal block + 2 controlled groups of 4 IEC C13 (10 A) + 2 IEC C19 (16 A)		Terminal block		
Outputs with HotSwap Maintenance Bypass	Terminal block + 3 IEC C13 (10 A) + 2 IEC C19 (16 A)		Terminal block + 4 IEC C19 (16 A)		
Batteries					
Typical backup times at 50 and 70% load*					
9PX	13/10 min	11/8 min	30/20 min	20/15 min	13/9 min
9PX + 1 EBM	60/40 min	48/34 min	70/45 min	48/32 min	32/21 min
9PX + 4 EBM	220/150 min	170/120 min	210/140 min	140/100 min	100/70 min
Battery management	ABM® and Temperature compensated charging method (user selectable), automatic battery test, deep discharge protection, automatic recognition of external battery units.				
Communication					
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, 1 DB15 for parallel operation.				
Communication slot	1 slot for Network-MS card (included in Netpack versions), ModBus-MS or Relay-MS cards.				
Operating conditions, standards and approvals					
Operating temperature	0 to 40°C continuous				
Noise level	<45 dB	<45 dB	<48 dB	<48 dB	<50 dB
Safety	IEC/EN 62040-1, UL 1778 (1:1 version)				
EMC, performance	IEC/EN 62040 -2, FCC Class A (1:1 version), IEC/EN 62040-3 (Performance)				
Approvals	CE, CB report (TUV), UL (1:1 version, 5 & 6kVA only)				
Dimensions H x W x D/weight					
UPS dimensions	440(19 ")*130(3U)*685 mm	440(19 ")*130(3U)*685 mm	440(19 ")*260(3U+3U)*700 mm	440(19 ")*260(3U+3U)*700 mm	440(19 ")*260(3U+3U)*700 mm
UPS weight	48 kg	48 kg	88 kg	84 kg (1:1), 88 kg (3:1)	86 kg (1:1), 88 kg (3:1)
EBM dimensions	440(19 ")*130(3U)*645 mm	440(19 ")*130(3U)*645 mm	440(19 ")*130(3U)*680 mm	440(19 ")*130(3U)*680 mm	440(19 ")*130(3U)*680 mm
EBM weight	68 kg	68 kg	65 kg	65 kg	65 kg
Power module dimensions	-	-	440(19 ")*130(3U)*700 mm	440(19 ")*130(3U)*700 mm	440(19 ")*130(3U)*700 mm
Power module weight	-	-	23 kg	19 kg (1:1), 23 kg (3:1)	21 kg (1:1), 23 kg (3:1)
Customer service and support					
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	9PX 5 kVA 1:1	9PX 6 kVA 1:1	9PX 8 kVA 1:1	9PX 11 kVA 1:1	9PX 6 kVA 3:1	9PX 8 kVA 3:1	9PX 11 kVA 3:1
UPS with HotSwap Maintenance Bypass	9PX5KiBP	9PX6KiBP	9PX8KiBP	9PX11KiBP	9PX6KiBP31	9PX8KiBP31	9PX11KiBP31
UPS with Network Card and Rack Kit	9PX5KiRTN	9PX6KiRTN	–	–	–	–	–
UPS with HotSwap MBP, Network Card and Rack Kits	–	–	9PX8KiRTNBP	9PX11KiRTNBP	9PX6KiRTNBP31	9PX8KiRTNBP31	9PX11KiRTNBP31
EBM	9PXEBM180	9PXEBM180	9PXEBM240	9PXEBM240	9PXEBM240	9PXEBM240	9PXEBM240
Power Module	–	–	9PX8KiPM	9PX11KiPM	9PX6KiPM31	9PX8KiPM31	9PX11KiPM31
HotSwap Maintenance Bypass	MBP6Ki	MBP6Ki	MBP11Ki	MBP11Ki	MBP11Ki31	MBP11Ki31	MBP11Ki31
9PX ModularEasy (paralleling kit)	9PXMEZ6Ki	9PXMEZ6Ki	9PXMEZ11Ki	9PXMEZ11Ki	–	–	–
Supercharger with Rack Kit	–	–	SC240RT	SC240RT	SC240RT	SC240RT	SC240RT
1.8m Battery Connection Cable	EBMCBL180	EBMCBL180	EBMCBL240	EBMCBL240	EBMCBL240	EBMCBL240	EBMCBL240

Accessories Rack kit: 9RK, Transformer (Single Phase): TFMR11Ki, Battery Integration System: BINTSYS

9PX Parallel*	9PX 10 kVA 1:1 (5 kVA redundant)	9PX 12 kVA 1:1 (6 kVA redundant)	9PX 16 kVA 1:1 (8 kVA redundant)	9PX 22 kVA 1:1 (11 kVA redundant)
	9PXM10KiRTN	9PXM12KiRTN	9PXM16KiRTN	9PXM22KiRTN

*9PX Parallel system includes 2 x 9PX, ModularEasy (Parallel kit), rail kits and network cards

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