

Eaton 9PX 1:1 UPS

6 - 11kVA



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 & cooling costs.
- With a 0.9 power factor the 9PX delivers 28% more power than other 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 5.4kW in only 3U and 10kW 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 Suite.
- Load segment control enables prioritised shutdowns of non-essential 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 (Ethernet Network, Voltage Free Contact

Relay, or Modbus & Network). Eaton's Intelligent Power® Software Suite 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 Module is also available for easy UPS replacement without interruption to the critical load for easy replacement of the UPS without powering down critical systems.
- The Eaton 9PX can be paralleled to achieve twice the power of unitary product using Eaton's proprietary Hot Sync® technology.
- 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 run time 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.

Advanced protection for:

- Small & medium data centre
- IT, Networking, Storage and Telecom
- Infrastructure, Industrial and Medical



Rack/Tower versatile (6kVA model depicted)



9PX 11kVA with Maintenance ByPass



9PX LCD tilts 45° for ease-of-viewing



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What's in the box:

- Pedestal feet
- USB cable
- Serial cable
- Cable retention brackets
- Safety instruction guide
- Software suite CD
- User manual



Eaton 9PX
8-11kVA UPS

Eaton 9PX
6kVA 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 10A sockets (2 groups of 4 manageable sockets) with cable retention system
- 6 2 IEC 16A sockets with cable retention system
- 7 DB 9 with output contacts
- 8 USB and serial ports
- 9 Input/Output connection



Technical Specifications	6kVA	8kVA	11kVA
Rating (kVA/kW)	6kVA/5.4kW	8kVA/7.2kW	11kVA/10kW
Electrical Characteristics			
Technology	On-line double conversion with Power Factor Correction (PFC) system		
Nominal voltage	200/208/220/230/240V	200/208/220/230/240V/250V	
Input voltage range	176-276V without derating (up to 100-276V with derating)		
Output voltage/THDU	200/208/220/230/240V +/- 1%; THDU <2%	200/208/220/230/240/250V +/- 1%; THDU <2%	
Input frequency range/THDI	40-70Hz, 50/60Hz 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	3:1/90A	3:1/120A	3:1/150A
Overload capacity	102-110% : 120s, 110-125%: 60s, 125-150%: 10s, >150%: 500ms	102-110% : 120s, 110-125%: 60s, 125-150%: 10s, >150%: 900ms	
Connections			
Input	Terminal block (up to 10 mm ²)	Terminal block (up to 16mm ²)	
Outputs	Terminal block + 2 controlled groups of 4 IEC C13 (10A) + 2 IEC C19 (16A)	Terminal block	
Outputs with optional HotSwap Maintenance Bypass	Terminal block + 3 IEC C13 (10A) + 2 IEC C19 (16A)	Terminal block + 4 IEC C19 (16A)	
Batteries			
Typical backup times at 50 and 70% load*			
9PX (8 & 11 kVA = 1 Power Module + 1 EBM)	11/8 min	20/15 min	13/9min
9PX + 1 EBM (8 & 11 kVA = Total 2 EBM)	48/34 min	48/32 min	32/21 min
9PX + 4 EBM (8 & 11 kVA = Total 5 EBM)	170/120 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, ModBus-MS or Relay-MS cards.		
Operating conditions, standards and approvals			
Operating temperature	0 to 40°C continuous		
Noise level	<45dB	<48db	<50db
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 (6kVA UPS, 8 and 11kVA power module)		
Dimensions H x W x D/Weight			
UPS (8 & 11 kVA = 1 Power Module + 1 EBM)	440(19")*130(3U)*685mm/48kg	440(19")*260(6U)*700mm/84kg	440(19")*260(6U)*700mm/86kg
EBM	440(19")*130(3U)*645mm/68kg	440(19")*130(3U)*680mm/65kg	440(19")*130(3U)*680mm/65kg
Power module	-	440(19")*130(3U)*700mm/19kg	440(19")*130(3U)*700mm/21kg
Customer Service and Support			
Warranty	3 years electronics, 2 years battery		

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

Part Numbers	9PX 6kVA	9PX 8kVA	9PX 11kVA
UPS	9PX6Ki	-	-
Power Module	-	9PX8KiPM	9PX11KiPM
EBM	9PXEBM180	9PXEBM240	9PXEBM240
HotSwap Maintenance Bypass	MBP6Ki	MBP11Ki	MBP11Ki
Transformer Module	TFMR11Ki	TFMR11Ki	TFMR11Ki
Supercharger with Rack Kit	-	SC240RT	SC240RT
1.8m Battery Connection Cable	EBMCBL180	EBMCBL240	EBMCBL240
Battery Integration System	BINTSYS	BINTSYS	BINTSYS
Rack Kit	9RK	9RK	9RK
Parallel & bypass module	9PXMEZ6Ki	9PXMEZ11Ki	9PXMEZ11Ki

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