

Eaton 9PX 3:1 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 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.
- 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, without extra cost on the initial purchase (available in Q2 2013)
- 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



9PX 11kVA with Maintenance ByPass



9PX LCD tilts 45° for ease-of-viewing



EATON

Powering Business Worldwide

What's in the box:

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



Eaton 9PX
6-11kVA 3:1
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 DB 9 with output contacts
- 6 USB and serial ports
- 7 Input/Output connection
- 8 Maintenance Bypass Module



Technical Specifications	6kVA 3:1	8kVA 3:1	11kVA 3:1
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 Input voltage	380/400/415		
Input voltage range	305 - 480V without 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%: 900ms		
Connections			
Input	Terminal block (up to 16mm ²)		
Output	Terminal block		
Output with optional HotSwap Maintenance Bypass	Terminal block + 4 IEC C19 (16A)		
Batteries			
Typical backup times at 50 and 70% load*			
9PX (All 3:1 models = 1 Power Module + 1 EBM)	30/20 min	20/15 min	13/9min
9PX + 1 EBM (All 3:1 models = Total 2 EBM)	70/45 min	48/32 min	32/21 min
9PX + 4 EBM (All 3:1 models = Total 5 EBM)	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, ModBus-MS or Relay-MS cards.		
Operating conditions, standards and approvals			
Operating temperature	0 to 40°C continuous		
Noise level	<48dB	<48db	<50db
Safety	IEC/EN 62040-1, CSA 22.2		
EMC, performance	IEC/EN 62040 -2, IEC/EN 62040-3 (Performance)		
Approvals	CE, CB report (TUV), C-Tick		
Dimensions H x W x D/Weight			
UPS	440(19")*260(6U)*700mm/88kg	440(19")*260(6U)*700mm/88kg	440(19")*260(6U)*700mm/88kg
EBM	440(19")*130(3U)*680mm/65kg	440(19")*130(3U)*680mm/65kg	440(19")*130(3U)*680mm/65kg
Power module	440(19")*130(3U)*700mm/23kg	440(19")*130(3U)*700mm/23kg	440(19")*130(3U)*700mm/23kg
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 3:1	9PX 8kVA 3:1	9PX 11kVA 3:1
Power Module	9PX6KiPM31	9PX8KiPM31	9PX11KiPM31
EBM	9PXEBM240	9PXEBM240	9PXEBM240
HotSwap Maintenance Bypass	MBP11Ki31	MBP11Ki31	MBP11Ki31
Transformer Module	TFMR11Ki	TFMR11Ki	TFMR11Ki
Supercharger with Rack Kit	SC240RT	SC240RT	SC240RT
1.8m Battery Connection Cable	EBMCBL240	EBMCBL240	EBMCBL240
Battery Integration System	BINTSYS	BINTSYS	BINTSYS
Rack Kit	9RK	9RK	9RK