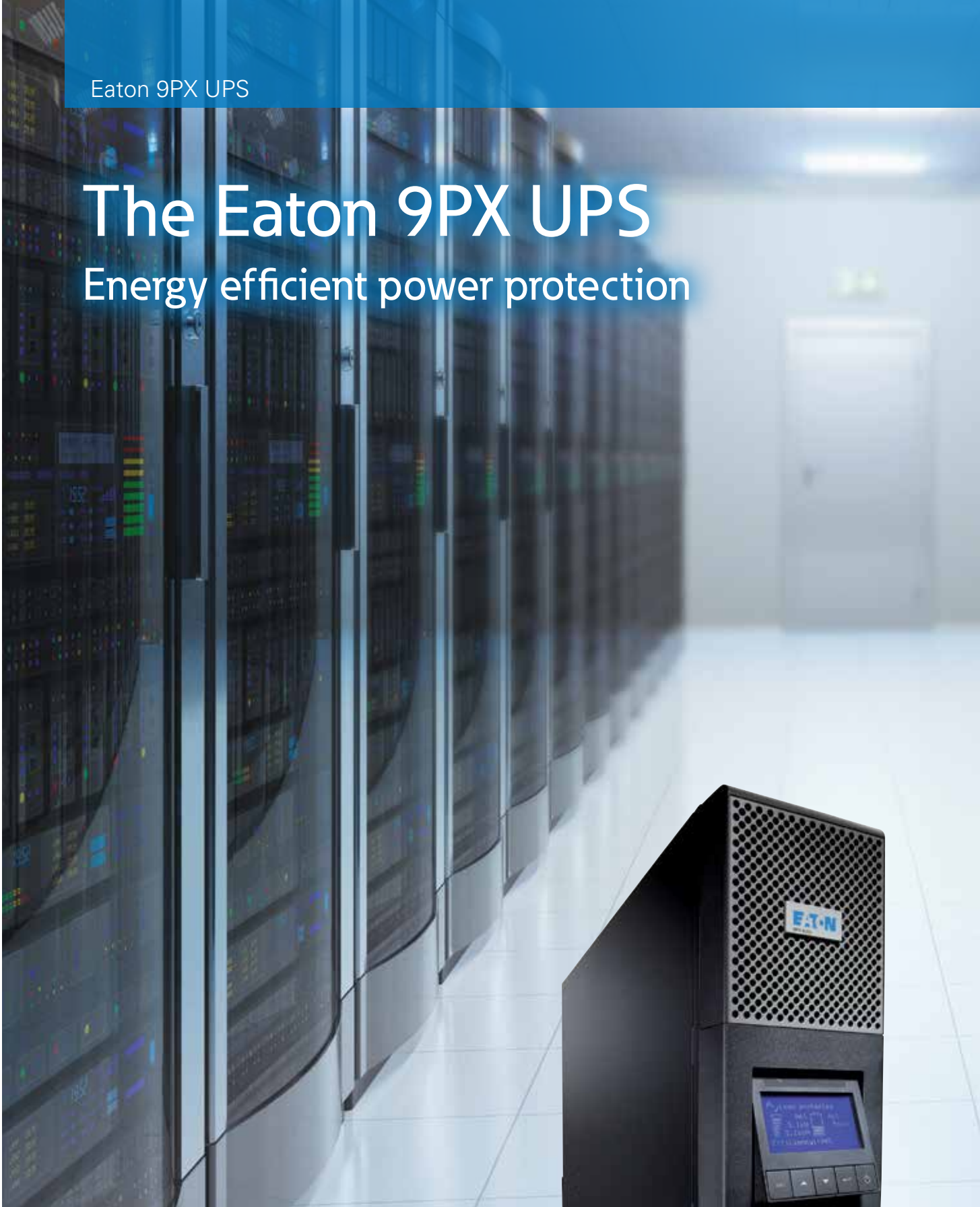# The Eaton 9PX UPS
Energy efficient power protection

EAT•N

Powering Business Worldwide

Performance and efficiency come together in the Eaton 9PX UPS.

As an industry professional, and because of rising energy costs and the business need for energy-efficient performance, you'll be looking for ways to reduce costs and consumption. The Eaton 9PX UPS enables you to secure all your mission-critical applications, giving you the reductions in energy usage and costs you need.
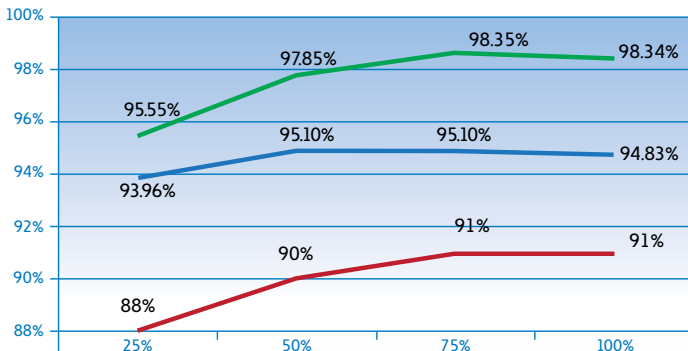
Eaton 9PX UPS key benefits.

- Constantly monitors power conditions and regulating voltage and frequency
- Up to **95% efficiency** in online double conversion mode and 98% in high-efficiency mode
- 0.9 power factor delivers **28% more power** than UPS in its class
- Compact rack/tower versatile form factor, delivering up to **5400W in only 3U** and **10kW in only 6U**

Essentially, the Eaton 9PX UPS gives you the chance to optimise power density and minimise capital and operating expenditure, along with the assurance that, should the power go down, critical processes will be maintained in your IT infrastructures and other applications.

Features that set the Eaton 9PX UPS apart.

- **New graphical LCD display** provides clear information on the UPS's status and measurements on a single screen which tilts 45° for ease-of-viewing

- **Metering energy consumption** – kWh values can be monitored using the LCD or our own Intelligent Power® Software Suite

- **Availability and Flexibility** – The internal bypass allows service continuity in case of internal fault, a maintenance bypass is also available for easy replacement of the UPS without powering down critical systems

- **Paralleling functionality** to achieve twice the power of unitary products using Hot Sync technology

- **Load segment control** enables prioritised shutdowns of nonessential equipment to maximise battery runtime for critical devices (5 and 6kVA UPS)

- **Serial, USB and relay connectivity,** plus an extra slot for an optional communication card

- **Intelligent Power® Software Suite** compatible with all major OS including virtualisation software such as VMware and Hyper-V is included with each UPS

- **Eaton ABM® battery management** technology for longer battery life

- Plus, add more runtime with up to **12 external hot-swappable battery modules**, able to run systems for hours if necessary

Efficiency chart (x-axis: 25%, 50%, 75%, 100%):

- 9PX 11kVA HE Mode: 95.55%, 97.85%, 98.35%, 98.34%
- 9PX 11kVA Online Mode: 93.96%, 95.10%, 95.10%, 94.83%
- Legacy UPS: 88%, 90%, 91%, 91%

— 9PX 11kVA HE Mode
— 9PX 11kVA Online Mode
— Legacy UPS

9PX is an Energy Star® qualified UPS

Eaton 9PX UPS can easily be used as a rack or a tower model.

Eaton innovating for more than 50 years.

Eaton has been safeguarding the critical systems of businesses across the globe for over half a century. Whether protecting a single desktop or the largest data centre, Eaton solutions provide clean, uninterrupted power to keep mission-critical applications working.

We offer a comprehensive range of environmentally-sensitive, efficient, reliable UPSs, surge protective devices, power distribution units (PDUs), remote monitoring, meters, software, connectivity, enclosures, airflow management and professional services.

As the ultimate protection for your IT equipment, the Eaton 9PX UPS also integrates seamlessly into all major virtual environments including VMWare, Hyper-V, Citrix XenServer, RedHat KVM. With Eaton you are sure to benefit from the best of virtualisation technology.

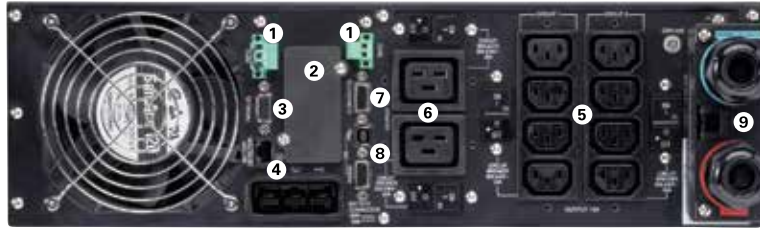**To find out more, please visit**
www.eaton.eu/9PX

9PX LCD tilts 45° for ease-of-viewing.

9PX 11kVA with Maintenance Bypass.

Eaton 9PX UPS Technical Specifications.

1 Remote Off/On and Remote Power Off connectors

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

3 Parrallel 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/Ouput connection

Eaton 9PX 6kVA

Technical Specifications	5kVA	6kVA	8kVA	11kVA
Rating (kVA/kW)	5kVA/4.5kW	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	3:1/90A	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 mm²)		Terminal block (up to 16mm²)	
Outputs	Terminal block + 2 controlled groups of 4 IEC C13 (10A) + 2 IEC C19 (16A)		Terminal block	
Outputs with 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	13/10 min	11/8 min	20/15 min	13/9min
9PX + 1 EBM	60/40 min	48/34 min	48/32 min	32/21 min
9PX + 4 EBM	220/150 min	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 (included in Netpack versions), ModBus-MS or Relay-MS cards.			
Operating conditions, standards and approvals				
Operating temperature	0 to 40°C continuous			
Noise level	<45dB	<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			
Dimensions H x W x D/Weight				
UPS	440(19'')*130(3U)*685mm/48kg	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)*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	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 5kVA	9PX 6kVA	9PX 8kVA	9PX 11kVA
UPS with HotSwap Maintenance Bypass	9PX5KiBP	9PX6KiBP	9PX8KiBP	9PX11KiBP
UPS with Network Card and Rack Kit	9PX5KiRTN	9PX6KiRTN	–	–
UPS with HotSwap MBP, Network Card and Rack Kits	–	–	9PX8KiRTNBP	9PX11KiRTNBP
EBM	9PXEBM180	9PXEBM180	9PXEBM240	9PXEBM240
Power Module	–	–	9PX8KiPM	9PX11KiPM
HotSwap Maintenance Bypass	MBP6Ki	MBP6Ki	MBP11Ki	MBP11Ki
Transformer Module	TFMR11Ki	TFMR11Ki	TFMR11Ki	TFMR11Ki
Supercharger with Rack Kit	–	–	SC240RT	SC240RT
1.8m Battery Connection Cable	EBMCBL180	EBMCBL180	EBMCBL240	EBMCBL240
Battery Integration System	BINTSYS	BINTSYS	BINTSYS	BINTSYS
Rack Kit	9RK	9RK	9RK	9RK

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