

# Eaton 9PX UPS

1000–3000W



3000W in only 2U!

#### Advanced protection for:

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



## Energy efficient power protection

### Performance and efficiency

- 9PX is the first UPS in its class to provide Unity power factor (VA=W). It delivers 11% more power than any other UPS as well as powering more servers with equivalent VA ratings and lower power factors.
- Energy Star qualified, the 9PX provides the highest efficiency level to reduce energy and cooling costs.
- Double conversion topology. The Eaton 9PX constantly monitors power conditions and regulates voltage and frequency.
- With a versatile Rack/Tower form factor, the 9PX is the most compact solution delivering up to 3000W in only 2U.

### Manageability

- The graphical LCD display provides clear information on the UPS's status and measurements on a single screen. Enhanced configuration capabilities are also available.
- 9PX can meter energy consumption right down to the managed outlet groups. kWh values can be monitored using the LCD or Eaton's Intelligent Power™ Software.
- Load segment control enables prioritised shutdowns of non-essential equipment to maximize battery runtime for critical devices.
- 9PX offers Serial and USB connectivity, plus an extra slot for an optional communication card. Eaton's Intelligent Power Software seamlessly integrates with leading virtualisation environments and cloud orchestrations tools.

### Availability and flexibility

- 9PX 2200 & 3000 are available in RT2U format (optimised for rack mounting) or RT3U (for tower or short-depth racks), pedestal and rail kits are included with all models.
- 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.
- 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 4 external hot-swappable battery modules, able to run systems for hours if necessary.



VA =  
Watt

# EATON

Powering Business Worldwide

# Eaton 9PX UPS technical specifications

- Graphical LCD display :
  - Clear information on UPS status and measurements
  - Enhanced configuration capabilities
- Panel for batteries replacement (Hot swappable)
- Slot for Management card (Network card delivered as standard on netpack version)



Eaton 9PX 3000VA

- Outputs: 8 x IEC 10A + 2 x IEC 16A with energy metering (including 2 programmable groups)
- USB port, 1 serial port, Remote ON/OFF, Remote power OFF and Relay output
- External battery (EBM) connector

Technical specifications	1000	1500	2200	3000VA
Rating (VA/W)	1000VA/1000W	1500VA/1500W	2200VA/2200W	3000VA/3000W
Format	RT2U (tower/rack 2U)		RT2U (tower/rack 2U) and RT3U (tower/rack 3U)	

Electrical characteristics					
Technology	On-line double conversion with Power Factor Correction (PFC) system				
Nominal voltage	200/208/220/230/240V				
Input voltage range	176-276V without derating (up to 100-276V with derating)				
Input frequency range	40-70Hz, 50/60Hz autoselection, frequency converter mode				
Efficiency	<table border="0"> <tr> <td>up to 91.5% in online mode (up to 97.5% in HI-efficiency mode)</td> <td>up to 92.5% in online mode (up to 97.5% in HI-efficiency mode)</td> <td>up to 93.5% in online mode (up to 98% in HI-efficiency mode)</td> <td>up to 94% in online mode (up to 98% in HI-efficiency mode)</td> </tr> </table>	up to 91.5% in online mode (up to 97.5% in HI-efficiency mode)	up to 92.5% in online mode (up to 97.5% in HI-efficiency mode)	up to 93.5% in online mode (up to 98% in HI-efficiency mode)	up to 94% in online mode (up to 98% in HI-efficiency mode)
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Connections	
Input	1 IEC C14 (10A) / 1 IEC C20 (16A) or terminal block on HotSwap MBP HW (Hard-Wired)
Outputs	8 IEC C13 (10A) sockets / 8 IEC C13 (10A) sockets + 2 IEC C19 (16A) sockets
Outputs on HotSwap models	4 FR/Schuko sockets or 3 BS sockets or 6 IEC 10A sockets or terminal blocks (HW version)
Switched outlet group	2 outlet groups

Batteries	
Typical backup times*	300W / 500W / 800W / 1200W / 1800W / 2500W
9PX 1000	28 / 16 / 9
9PX 1000 + 1 EBM/+4 EBM	134/530 / 79/316 / 47/188
9PX 1500	38 / 23 / 13 / 7
9PX 1500 + 1 EBM/+4 EBM	143/536 / 86/319 / 52/192 / 32/120
9PX 2200	43 / 25 / 15 / 9 / 5
9PX 2200 + 1 EBM/+4 EBM	206/818 / 123/491 / 74/297 / 47/189 / 29/118
9PX 3000	60 / 36 / 22 / 13 / 7 / 4
9PX 3000 + 1 EBM/+4 EBM	221/824 / 135/504 / 83/307 / 52/194 / 33/122 / 22/82
Battery management	ABM® & 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 serial RS232 port + 1 mini-terminal block for remote ON/OFF + 1 mini-terminal block for remote power off + 1 mini-terminal block for output relay
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
Typical noise level	35dB / 40dB
Safety	IEC/EN 62040-1, UL 1778, CSA 22.2
EMC	IEC/EN 62040 -2, FCC Class B, CISPR22 Class B
Approvals & markings	CE /CB report (TUV) / cULus / EAC /RCM / KC / Energy Star

Dimensions H x W x D in mm/ Weight	
UPS	86.5*440*450/17.4kg / 86.5*440*450/18.9kg / 2U version: 86.5*440*605/25kg / 2U version: 86.5*440*605/27.6kg / 3U version: 130*440*485/24.5kg / 3U version: 130*440*485/27.4kg
EBM	86.5*440*450/29.8kg / 2U version: 86.5*440*605/39.2kg / 3U version: 130*440*485/38.2kg

Customer service and support	
Warranty	3 years on electronics, 2 years on batteries

\* Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

Parts numbers*	9PX 1kVA	9PX 1.5kVA	9PX 2.2kVA	9PX 3kVA
UPS RT3U			9PX2200IRT3U	9PX3000IRT3U
UPS RT2U	9PX1000IRT2U	9PX1500IRT2U	9PX2200IRT2U	9PX3000IRT2U
UPS RT3U with HotSwap MBP			IEC: 9PX2200IRTBPH HW: 9PX2200IRTBPH FR: 9PX2200IRTBPF DIN: 9PX2200IRTBPD BS: 9PX2200IRTBPB	IEC: 9PX3000IRTBPH HW: 9PX3000IRTBPH FR: 9PX3000IRTBPF DIN: 9PX3000IRTBPD BS: 9PX3000IRTBPB
UPS RT2U with Network card	9PX1000IRTN	9PX1500IRTN	9PX2200IRTN	9PX3000IRTN
EBM	9PXEbm48RT2U		2U: 9PXEbm72RT2U / 3U: 9PXEbm72RT3U	
2m battery connection cable	Ebmcbl48		Ebmcbl72	
Battery integration system	BINTSYS			

\*All 9PX UPS and EBM are delivered with rack kit