

Eaton 9PX Lithium-ion UPS

1000VA-3000VA



9PX Lithium-ion UPS

Advanced protection for:

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



Lithium-ion Online Double conversion UPS

Longer life

- 9PX lithium-ion UPSs features an expanded battery life of 8–10 years* compared to the usual 3-5 years with VRLA batteries.
- Lithium-ion batteries eliminates the needs for battery replacement and attached costs (planning, labor, shipping).
- This longer life is backed by a five-year factory warranty including UPS electronics, internal batteries and EBMs.

Management and Cybersecurity

- Eaton Gigabit network management card provide Dual cyber security certifications (UL 2900-1 & IEC 62443-4-2), it's delivered as standard with Netpack UPS.
- Eaton's Intelligent Power Software seamlessly integrates with leading virtualisation environments and cloud orchestrations tools.
- 9PX Lithium-ion 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.

High Performance

- Double conversion topology. The Eaton 9PX Lithium-ion constantly monitors power conditions and regulates voltage and frequency.
- Energy Star qualified, the 9PX Lithium-ion provides the highest efficiency level to reduce energy and cooling costs.
- Internal bypass allows service continuity in case of internal fault, a maintenance bypass is also available for easy replacement of the UPS.
- More runtime can be added with up to 4 external hot-swappable battery modules, able to run systems for hours if necessary.

Easy installation and upgrade

- Lighter weight: UPS weight reduced up to 20% and EBM weight reduced more than 40%.
- Smaller size: Battery extension size reduced to 1U saving space for IT equipment.
- Firmware upgrade can be done locally or remotely through the Gigabit Network management card.
- All models delivered with all necessary hardware for tower or rack-mounting.

*Batteries expected to achieve optimum service life of up to 8-10 years when used at optimal 25°C ambient temperature and up to 52 discharge cycles per year.

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Powering Business Worldwide

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Eaton 9PX Lithium-ion UPS technical specifications

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



- 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	3000
Rating (VA/W)	1000VA/1000W	1500VA/1500W	2200VA/2200W	3000VA/2400W (3000VA/3000W with EBM)
Format	RT2U (tower/rack 2U)			

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)
Outputs	8 IEC C13 (10A) sockets
Switched outlet group	2 outlet groups

Batteries	
Typical backup times ¹	300W 500W 800W 1200W 1800W 2400W
9PX 1000	45 30 19
9PX 1000 + 1 EBM/4EBM	114/321 76/210 49/137
9PX 1500	45 30 20 13
9PX 1500 + 1 EBM/4EBM	114/321 76/210 52/145 33/92
9PX 2200	66 45 30 21 14
9PX 2200 + 1 EBM/4EBM	170/475 112/305 78/205 52/148 35/98
9PX 3000	68 46 30 21 14 10.5
9PX 3000 + 1 EBM/4EBM	184/516 120/320 80/215 54/153 37/104 28/78
Battery	Lithium-ion battery (LFP) with 8 to 10 years service life ² , automatic recognition of external battery modules (EBM)

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 Gigabit Network management card (included in netpack versions), Industrial Gateway Card (Modbus TCP/RTU), or Relay card.

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) / EAC/ Energy Star

Dimensions H x W x D in mm/ weight	
	1kVA 1.5kVA 2.2kVA 3kVA
UPS	86.5x440x450/15.6Kg 86.5x440x450/15.8Kg 86.5x440x605/22.1Kg 86.5x440x605/22.8Kg
EBM	42.9x438x448/12.0Kg 42.9x438x448/12.0Kg 42.9x438x603/17.4Kg 42.9x438x603/17.4Kg

Customer service and support	
Warranty	5 years full warranty (electronics, internal batteries and EBM)

¹ Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.
² Batteries expected to achieve optimum service life of up to 8-10 years when used at optimal 25°C ambient temperature and up to 52 discharge cycles per year.

Parts numbers*	1kVA	1.5kVA	2.2kVA	3kVA
UPS RT2U	9PX1000IRT2U-L	9PX1500IRT2U-L	9PX2200IRT2U-L	9PX3000IRT2U-L
UPS RT2U with Gigabit Network card	9PX1000IRTN-L	9PX1500IRTN-L	9PX2200IRTN-L	9PX3000IRTN-L
EBM RT1U	9PXEbm48RT1U-L	9PXEbm48RT1U-L	9PXEbm72RT1U-L	9PXEbm72RT1U-L

*All 9PX Lithium-ion UPS and EBM are delivered with rack kit

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