

Eaton 9PX Lithium-ion UPS

1500VA-6000VA



9PX Lithium-ion UPS

Advanced protection for:

- 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. 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 by 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.

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Powering Business Worldwide



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	1500	2200	3000	6000
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Rating (VA/W)	1500VA/1500W	2200VA/2200W	3000VA/3000W	6000VA/5400W
Format	RT2U (tower/rack 2U)			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	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)	up to 94% in online mode (up to 98% in Hi-efficiency mode)

Connections

Input	1 IEC C14 (10A)	1 IEC C20 (16A)	Terminal block	
Outputs	8 IEC C13 (10A) sockets	8 IEC C13 (10A) sockets + 2 IEC C19 (16A) sockets		Terminal block + 8 IEC C13 (10A) sockets + 2 IEC C19 (16A) sockets
Switched outlet group	2 outlet groups			

Batteries

Typical backup times*	300W	500W	800W	1200W	1800W	2400W	3500W	4800W
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		
9PX 6000	110	72	45	32	22	17.5	12	8.5
9PX 6000 + 1 EBM/4EBM	400/1200	240/720	160/470	110/340	80/230	60/175	41/122	30/89
Battery	Lithium-ion battery (LFP) with 8 to 10 years service life, 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 DB9 for dry contacts (6kVA)
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 / 45dB
Safety	IEC/EN 62040-1, UL 1778, CSA 22.2
EMC	IEC/EN 62040-2, FCC Class B (Class A for 6kVA), CISPR22 Class B (Class A for 6kVA)
Approvals & markings	CE /CB report (TUV) / EAC/ Energy Star

Dimensions H x W x D in mm/ weight

	1.5kVA	2.2kVA	3kVA	6kVA
UPS	86.5x440x450/15.8Kg	86.5x440x605/22.1Kg	86.5x440x605/22.8Kg	130x440x685/36.9Kg
EBM	42.9x438x448/12Kg	42.9x438x603/17.4Kg	42.9x438x603/17.4Kg	438x85.3x645/35.8Kg

Customer service and support

Warranty	5 years full warranty (electronics, internal batteries and EBM)
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* Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

Parts numbers*

	1.5kVA	2.2kVA	3kVA	6kVA
UPS RT	9PX1500IRT2U-L	9PX2200IRT2U-L	9PX3000IRT2U-L	
UPS RT with Gigabit Network card	9PX1500IRTN-L	9PX2200IRTN-L	9PX3000IRTN-L	9PX6KIRTN-L
EBM RT	9PXEBM48RT1U-L	9PXEBM72RT1U-L	9PXEBM72RT1U-L	9PXEBM192RT2U-L

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