

Eaton 9PX Lithium-ion UPS

1500VA-3000VA



Best-in-class
performance
and beyond

EAT•N
Powering Business Worldwide

Eaton 9PX lithium-ion UPS

Double-conversion UPS that offers a set-it-and-forget-it deployment



The 9PX lithium-ion UPS is part of the Eaton 9 series single-phase double-conversion UPS line, best applied to mission-critical equipment for constant power conditioning.

The 9PX lithium-ion UPS provides 8 to 10 years of life expectancy for UPS and its batteries, and has power ratings ranging from 1.5 to 3 kVA, while also offering up to four external battery modules (EBM) for extra runtime.

The 9PX lithium-ion UPS has the same reliable features as the 9PX lead-acid UPS, including load segments for prioritized shutdowns, remote power on (RPO), remote on/off (ROO) and output relay ports that increase control capabilities.

For connectivity, the 9PX is compatible with the Gigabit Network Card (NETWORK-M2). It improves power system reliability by providing warnings of pending issues and helping to perform orderly graceful shutdown of servers and storage.

9PX Li-ion battery 9PX Lead-acid battery

Battery lifespan

- up to 8 to 10 years
- average 3 to 5 years

Weight

- EBM battery is 40% lighter
- 29.8kg

Footprint

- 1U
- 2U

Warranty

- 5 year warranty (2.5x the warranty coverage of the 9PX lead-acid UPS)
- 3 year warranty

Recharge time

- Significantly faster than Lead-acid
- Up to 90% in 3 hours

The first UPS connectivity device to meet both UL and IEC cybersecurity standards.

Eaton's Gigabit Network Cards (NETWORK-M2) adds advanced control with IPM software, allows for remote management and integration into leading virtualization platform



Advanced protection for applications such as

- Small data centres
- Mining
- Infrastructure
- Telecom
- Healthcare
- IT Network



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Key features and benefits

Save money:

- 2-3X longer battery life: minimize battery maintenance expense — ideal for large deployments and edge applications
- Runtime: UPS with internal batteries provides up to double the runtime at typical loads compared to equivalent VRLA models
- Warranty: 5-year all-inclusive (electronics and battery) warranty

Save space:

- 1U lithium EBM vs 2U lead-acid EBM
- Lightweight design 40% less weight than a comparable lead-acid UPS allowing easier installation and saving time

Reduce risk:

- 24/7 monitoring: battery management system (BMS) improves reliability and performance by actively monitoring temperature and charge
- Cybersecure: remote monitoring service and network connectivity card options provide cybersecurity protection and keeps you connected with your UPS status updates
- On-board BMS monitoring in combination with proven Lithium Iron Phosphate (LFP) chemistry provides a reliable and safe offering, giving you peace of mind



For even more runtime, add up to four EBMs to your 9PX UPS



2U UPS in 4-post rack

Lithium-ion battery

Why lithium?

Lithium-ion chemistry demonstrates superior characteristics in UPS applications, this results in high energy density, long life, flexible installation, improved cycle life and a lower TCO.

Backup battery runtimes

Contact Eaton for backup times and configurations. A wide range of runtimes from 3 minutes to an hour + are available.

Management and monitoring system

The lithium-ion battery integrates a powerful battery management system (BMS), providing cell protection (temp, current, over/under voltage), cell balancing, state of charge and health and alarms/ reports.

Performance optimisation:

The BMS incorporates cell and module balancing controls. This function optimises the voltages of each module to maximise performance and increase service life.

Protection

The BMS processes critical parameters such as voltage levels, temperature, and current at the module and solution levels. Abnormal conditions (warnings and alarms) are quickly detected and, if necessary, the BMS will protect the system from damage by disconnecting the affected battery.



Rear panel overview

IPM – Intelligent Power Manager

The power of automation

IPM is an easy-to-use disaster avoidance platform with sophisticated capabilities that include triggering alerts and automating resolutions to keep applications running. IPM enables you to:

- Leverage Eaton's integrations with industry leaders to keep critical applications running and automate resolutions for your entire network risking potential downtime.
- Migrate workloads to increase system uptime and minimize generator load by suspending non-critical virtual machines.
- Power cap servers to keep critical loads running longer by limiting server power consumption.

VPM – Visual Power Manager

The power of monitoring

With Visual Power Manager (VPM), you can remotely monitor the power of thousands of PDU and UPS devices through a user-friendly, visual interface that simplifies data for quick action. VPM enables you to:

- Gain vendor agnostic insight. Monitor a mixed environment through VPM's unique protocol-based data collection.
- Know what's coming. Analyze power devices visually and get notified ahead of replacement through custom reports.
- Get real-time, rack-level statistics. Quickly remediate through up-to-the-minute analytics, notifications and alarms for events exceeding what any branch can support.

PredictPulse™ Insight

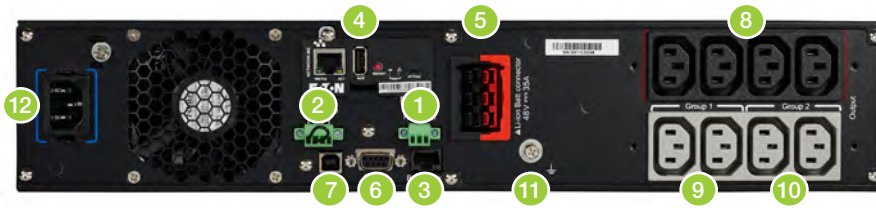
The power of predictability

PredictPulse Insight is the industry's first cloud-based 24x7 remote monitoring and predictive analytics subscription service to forecast data center power component failure and proactively replace components before failure. PredictPulse enables you to:

- **Save time.** Focus on other critical IT tasks while this predictive analytics service and Eaton's remote monitoring team oversees power remotely.
- **Save money.** Eliminate surprise maintenance expenses — this subscription-based service includes parts, labor, on-going preventive maintenance and expedited repairs.
- **Reduce risk.** Utilize Eaton's propriety algorithms, based on data from thousands of installed devices to predict UPS component failure and proactively replace parts before issues arise.

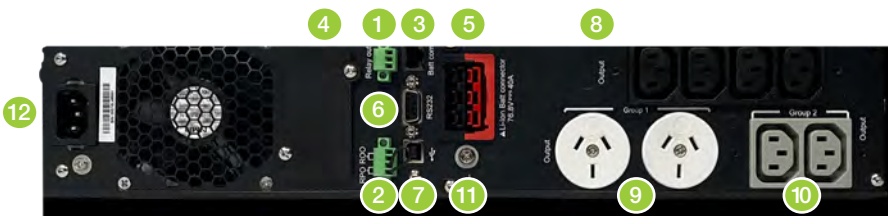


Model 9PX1500IRTANZ-L



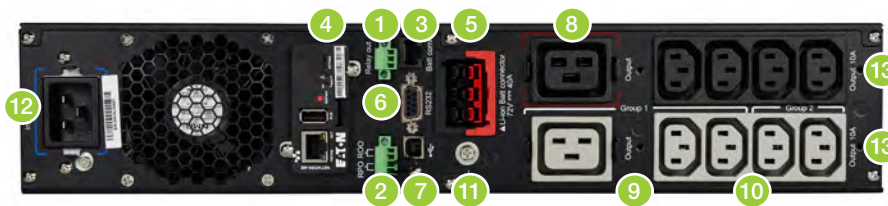
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|---|---|---|---|----|--|
| 1 | Output relay port | 5 | EBM connector | 9 | (2) C13 managed outlets (load segment group 1) |
| 2 | Remote power off (RPO) and remote on/off (ROO) port | 6 | RS-232 serial communication port (cable included) | 10 | (2) C13 managed outlets (load segment group 2) |
| 3 | External battery module (EBM) detection port | 7 | USB port (cable included) | 11 | Ground bonding screw |
| 4 | NETWORK-M2 card (optional) | 8 | (4) C13 managed outlets (primary group) | 12 | C14 (10A male) AC input |

Model 9PX2000IRTAU-L



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|---|---|---|--|----|--|
| 1 | Output relay port | 6 | RS-232 serial communication port (cable included) | 10 | (2) C13 managed outlets (load segment group 2) |
| 2 | Remote power off (RPO) and remote on/off (ROO) port | 7 | USB port (cable included) | 11 | Ground bonding screw |
| 3 | External battery module (EBM) detection port | 8 | (4) C13 managed outlets (primary group) | 12 | C14 (10A male) AC input |
| 4 | NETWORK-M2 card (optional) | 9 | (2) 10A ANZ GPO managed outlets (load segment group 1) | | |
| 5 | EBM connector | | | | |

Model 9PX3000IRTANZ-L



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|---|---|---|--|----|--|
| 1 | Output relay port | 6 | RS-232 serial communication port (cable included) | 10 | (2) C13 managed outlets (load segment group 2) |
| 2 | Remote power off (RPO) and remote on/off (ROO) port | 7 | USB port (cable included) | 11 | Ground bonding screw |
| 3 | External battery module (EBM) detection port | 8 | (1) C19 + (4) C13 managed outlets (primary group) | 12 | C20 (16A male) AC input |
| 4 | NETWORK-M2 card (optional) | 9 | (1) C19 + (2) C13 managed outlets (load segment group 1) | 13 | AC output branch protector |
| 5 | EBM connector | | | | |



Eaton 9PX Lithium-ion UPS technical specifications

Technical specifications	1500	2000	3000			
Rating (VA/W)	1500VA/1500W	2000VA/1800W	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	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)			
Connections						
Input	1 IEC C14 (10A)	1 IEC C14 (10A)	1 IEC C20 (16A)			
Outputs	8 IEC C13 (10A) sockets	6 IEC C13 (10A) + 2 ANZ GPO (10A) sockets	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
9PX 1500	45	30	20	13		
9PX 1500 + 1 EBM/4EBM	114/321	76/210	52/145	33/92		
9PX 2000	66	45	30	21	14	
9PX 2000 + 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, 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, 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/RCM					
Dimensions H x W x D in mm/ weight						
	1.5kVA		2.0kVA		3kVA	
UPS	86.5x440x450/15.8Kg		86.5x440x605/22.1Kg		86.5x440x605/22.8Kg	
EBM	42.9x438x448/12Kg		42.9x438x603/17.4Kg		42.9x438x603/17.4Kg	
Customer service and support						
Warranty	5 years full warranty (electronics, internal batteries and EBM)					

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

Parts numbers*	1.5kVA	2.2kVA	3kVA
UPS RT2U	9PX1500IRTANZ-L	9PX2000IRTAU-L	9PX3000IRTANZ-L
EBM RT1U	9PXEBM48RT1U-L	9PXEBM72RT1U-L	9PXEBM72RT1U-L

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



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