Eaton 9PX Lithium-ion UPS 1500VA-6000VA

Best-in-class performance and beyond



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 6kVA, 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 lithium-ion 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

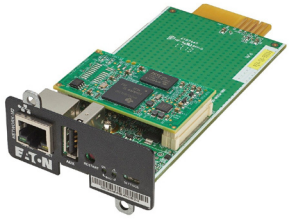
Battery lifespan
- **up to 8 to 10 years**
- average 3 to 5 years

Weight
- **EBM battery is 40% lighter**
- 29.8kg, 35.8kg

Footprint
- **1U, 2U**
- 2U, 3U

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 platforms **Eaton.au/intelligentpower**

Advanced protection for applications such as


Small data centres


Mining


Infrastructure


Telecom


Healthcare


IT Network

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:

- EBM size reduced to 1U saving space for IT equipment
- 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.

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.

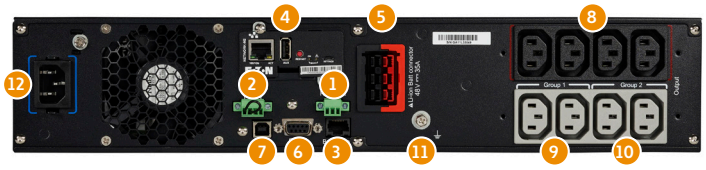
Performance optimisation:

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

For more information on Lithium-ion battery, visit **Eaton.au/Lithium**

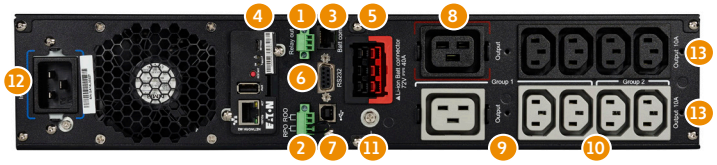
Rear panel overview

Model 9PX1500IRTANZ-L



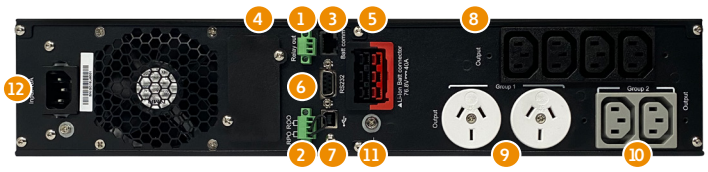
1. Output relay port
2. Remote power off (RPO) and remote on/off (ROO) port
3. External battery module (EBM) detection port
4. NETWORK-M2 card (optional)
5. EBM connector
6. RS-232 serial communication port (cable included)
7. USB port (cable included)
8. (4) C13 managed outlets (primary group)
9. (2)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

Model 9PX3000IRTANZ-L



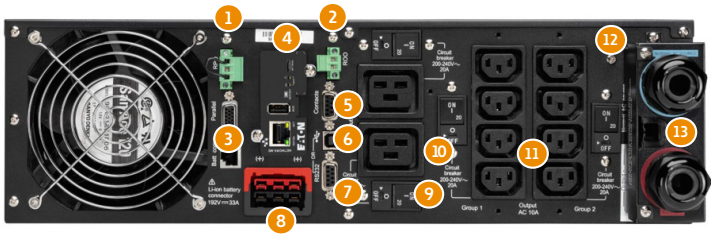
1. Output relay port
2. Remote power off (RPO) and remote on/off (ROO) port
3. External battery module (EBM) detection port
4. NETWORK-M2 card (optional)
5. EBM connector
6. RS-232 serial communication port (cable included)
7. USB port (cable included)
8. (1) C19 + (4) C13 managed outlets (primary group)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

Model 9PX2000IRTAU-L



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

Part Number 9PX6KIRTN-L



1. Remote power off (RPO) port
2. Remote on/off (ROO) port
3. External battery module (EBM) detection port
4. NETWORK-M2 card
5. Output relay contact – DB-9 dry contact
6. USB port (cable included)
7. RS-232 serial communication port (cable included)
8. EBM connector
9. Output circuit breaker protection
10. (2) IEC 16A sockets
11. 8 IEC 10A sockets
12. Ground bonding screw
13. Input/Output Connections

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.

Learn more at **Eaton.au/IPM**

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.

Learn more at **Eaton.au/VPM**

Eaton 9PX Lithium-ion UPS technical specifications

1 Graphical LCD display :
- Clear information on UPS status and measurements
- Enhanced configuration capabilities

2 Slot for Management card (Network card delivered as standard on netpack version)



Eaton 9PX 3000VA

3 Outputs: 8 x IEC 10A + 2 x IEC 16A with energy metering (including 2 programmable groups)

4 USB port,1 serial port, Remote ON/OFF, Remote power OFF and Relay output

5 External battery (EBM) connector

Technical specifications	**1500**	**2200**	**3000**	**6000**
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 temeprature	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 (eletronics, internal batteries and EBM)

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

Parts numbers*	**1.5kVA**	**2 kVA**	**3kVA**	**6KVA**
UPS RT	9PX1500IRTANZ-L	9PX2000IRT2U-L	9PX3000IRTANZ-L	
UPS RT with Gigabit Network card				9PX6KIRTN-L
EBM RT	9PXEBM48RT1U-L	9PXEBM72RT1U-L	9PXEBM72RT1U-L	9PXEBM192RT2U-L

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

To view battery runtimes and interact with the Eaton 9PX lithium-ion UPS, please visit: Eaton.com/au/9px-lithium

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