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Eaton 9PX Lithium-ion UPS

1500VA-3000VA



9PX Lithium-ion UPS

Advanced protection for:

- · Small and Medium Datacentre
- IT, Networking, Storage and Telecom
- · Infrastucture, 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, labour, 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).
- 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.





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)



- 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

Formation RT2U (tower/rack 2U Selectical claracteristics Selectica	Technical specifications	1500		2000		3000		
Rethology	Rating (VA/W)	1500VA/1500W	1500VA/1500W		2000VA/1800W		3000VA/2400W (3000VA/3000W with EBM)	
Continuology	Format	RT2U (tower/rack	RT2U (tower/rack 2U					
Nominal voltage 200/289/220/230/240V 178-276V without derating (p to 100-276V with derating) Imput frequency range 40-70HL, 50/68Hz autoselection, frequency converter mode Efficiency up to 92.5% in notine mode (pp to 93.5% in notine mode) (up to 93.5% in Herificiency mode) Commections Financial 1 IEC C14 [10A)	Electrical characteristics	•						
Input voltage range	Technology	On-line double co	onversion with Power Fac	tor Correction (PFC) syste	em			
Part Fequency range 40-70kt, 50/60kt autoselection, frequency converter mode up to 93.5% in in file mode up to 93.5% in file file mode up to 93.5% in in file mode up to 93.5% in file file mode up to 93.5% in file mode up to	Nominal voltage	200/208/220/230						
### Contact Up 19 92 5% in online mode (up 19 97.5% in File ficiency mode) Up 10 93.5% in Online mode (up 19 98% in File ficiency mode) Up 19 98% in File file file file file file file file f	nput voltage range	176-276V withou	176-276V without derating (up to 100-276V with derating)					
Connections	Input frequency range	40-70Hz, 50/60H						
Dutputs 8 IEC C13 (10A) sockets 8 IEC C13 (10A) sockets 8 IEC C13 (10A) sockets 9 IEC C13 (10A) + 2 IEC C19 (16A) sockets 8 IEC C18 (10A) + 2 IEC C19 (16A) sockets 8 I	Efficiency							
Dutputs 8 EEC C13 TOA sockets 6 EEC C13 TOA + 2 AU GPO TOA sockets 8 EEC C13 TOA + 2 EEC C19 TOA sockets SWitched dutlet group 2 outlet groups Batteries Virylicial backup times* 300W 500W 800W 1200W 1800W 2400W SPX 1500 45 30 20 13 SPX 1500 45 30 20 13 SPX 1500 66 45 30 21 14 SPX 2000 66 45 30 21 14 SPX 2000 68 46 30 21 14 10.5 SPX 2000 68 46 30 21 14 10.5 SPX 2000 68 46 30 21 14 10.5 SPX 2000 18BM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 SPX 2000 1 EBM/4EBM 184/516 120/320 18/14 18/14 18/14 18/14 18/14 SPX 2000 1 EBM/4EBM 184/516 184/516 184/516 18/14 18/14 18/14 18/14 18/14 18/14 18/14 18/14 18/14 18/14 18/14	Connections							
Switched outlet group 2 outlet groups Satteries Support	Input	1 IEC C14 (10A)	1 IEC C14 (10A) 1 IEC C14 (10A)					
Selective Sele	Dutputs	8 IEC C13 (10A) s	8 IEC C13 (10A) sockets 6 IEC C13 (10A) + 2 AU GPO (10A) sockets		8 IEC C13 (10A) + 2 IEC C19 (16A) sockets			
SOUN	Switched outlet group	2 outlet groups	utlet groups					
9PX 1500	Batteries							
9PX 1500 + 1 EBM/4EBM 114/321 76/210 52/145 33/92 9PX 2000 66 45 30 21 14 9PX 2000 168 46 30 21 14 9PX 2000 168 46 30 21 14 10.5 9PX 3000 168 46 30 30 21 14 14 10.5 9PX 3000 188 46 30 21 14 14 10.5 9PX 3000 188 46 30 30 21 14 14 10.5 9PX 3000 188 46 30 30 21 14 14 10.5 9PX 3000 188 46 120/320 80/215 54/153 37/104 28/78 Battary 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 (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 Safety 1EC/EN 62040-1, UL 1778, CSA 22.2 EMC 1EC/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 2.0kVA 3kVA UPS 66.5x440x605/22 8kg 42.9x438x448/12kg 42.9x438x603/17.4kg 42.9x438x603/17.4kg 42.9x438x603/17.4kg 42.9x438x603/17.4kg Customer service and support	Typical backup times*	300W	500W	800W	1200W	1800W	2400W	
### 2000 66 45 30 21 14 ### 2000 1 EBM/4EBM 170/475 112/305 78/205 52/148 35/98 ### 3000 68 46 30 21 14 10.5 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 1 EBM/4EBM 184/516 120/320 80/215 54/153 37/104 28/78 ### 3000 184/516 120/320 180/215 180/4EBM 184/516 120/320 180/215 180/4EBM 184/516 184/518	3PX 1500	45	30	20	13			
PX 2000 + 1 EBM/4EBM 170/475 112/305 78/205 52/148 35/98	PPX 1500 + 1 EBM/4EBM	114/321	76/210	52/145	33/92			
## 10.5 ## 2000 68	9PX 2000	66	45	30	21	14		
### 120/320 ### 12	9PX 2000 + 1 EBM/4EBM	170/475	112/305	78/205	52/148	35/98		
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 (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 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 JPS 86.5x440x450/15.8Kg 86.5x440x605/22.1Kg 86.5x440x605/22.1Kg 42.9x438x603/17.4Kg Customer service and support	9PX 3000	68	46	30	21	14	10.5	
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 temeprature 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 JPS 86.5x440x450/15.8Kg 86.5x440x605/22.1Kg 86.5x440x605/22.8Kg EBM 42.9x438x448/12Kg 42.9x438x603/17.4Kg Customer service and support	9PX 3000 + 1 EBM/4EBM	184/516	120/320	80/215	54/153	37/104	28/78	
Loss 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. Deparating conditions, standards and approvals Operating temeprature 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 JPS 86.5x440x450/15.8Kg 86.5x440x450/15.8Kg 86.5x440x605/22.1Kg 86.5x440x605/22.8Kg EBM 42.9x438x448/12Kg 42.9x438x603/17.4Kg Customer service and support	Battery	Lithium-ion batte	ry (LFP) with 8 to 10 year	s service life, automatic	recognition of external batter	y modules (EBM)		
+ 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. Deparating conditions, standards and approvals Operating temeprature 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 JPS 86.5x440x450/15.8Kg 86.5x440x605/22.1Kg 42.9x438x403/17.4Kg 42.9x438x603/17.4Kg Customer service and support	Communication							
Departing conditions, standards and approvals Departing temeprature	Communication ports							
Operating temeprature 0 to 40°C Typical noise level 35dB 40dB Safety IEC/EN 62040-1, UL 1778, CSA 22.2 FMC IEC/EN 62040 -2, FCC Class B, CISPR22 Class B Approvals & markings CE /CB report (TUV) / EAC / Energy Star / RCM FMC 3kVA 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	Communication slot	1 slot for Gigabit						
Safety Safety IEC/EN 62040-1, UL 1778, CSA 22.2	Operating conditions, standards and	approvals						
IEC/EN 62040-1, UL 1778, CSA 22.2	Operating temeprature	0 to 40°C		-				
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 JPS 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	Typical noise level	35dB	35dB		40dB			
Approvals & markings	Safety	IEC/EN 62040-1,	UL 1778, CSA 22.2					
Dimensions H x W x D in mm/ weight 1.5kVA 2.0kVA 3kVA 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	EMC	IEC/EN 62040 -2,						
1.5kVA 2.0kVA 3kVA JPS 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	Approvals & markings	CE /CB report (TL						
JPS 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	Dimensions H x W x D in mm/ weigh	ıt						
EBM 42.9x438x448/12Kg 42.9x438x603/17.4Kg 42.9x438x603/17.4Kg Customer service and support		1.5kVA	1.5kVA		2.0kVA		3kVA	
EBM 42.9x438x448/12Kg 42.9x438x603/17.4Kg 42.9x438x603/17.4Kg Customer service and support	UPS	86.5x440x450/15.	86.5x440x450/15.8Kg		86.5x440x605/22.1Kg		86.5x440x605/22.8Kg	
	EBM	42.9x438x448/12h	42.9x438x448/12Kg				42.9x438x603/17.4Kg	
Warranty 5 years full warranty (eletronics, internal batteries and EBM)	Customer service and support							
	Warranty	5 years full warra	anty (eletronics, internal b	atteries and EBM)				

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

Parts numbers*	1.5kVA	2.0kVA	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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