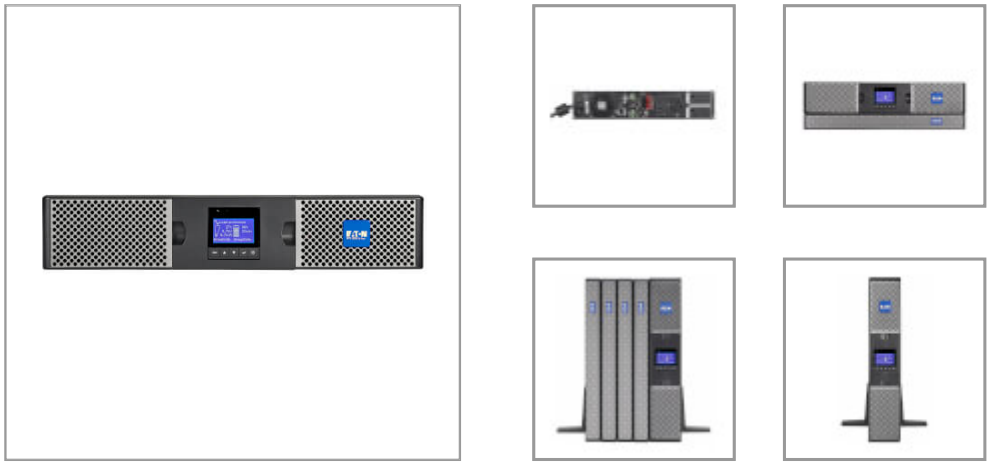
Eaton 9PX 2000VA 1800W 120V Online Double-Conversion UPS - 5-20P, 6x 5-20R, 1 L5-20R, Lithium-ion Battery, Cybersecure Network Card, 2U Rack/Tower

MODEL NUMBER: **9PX2000RTN-L**



Provides sine wave output, complete battery backup and power protection for mission-critical IT installations, edge networks and other advanced network applications.

Features

2kVA/1.8kW/120V Long-Term Battery Backup for IT Installations and Edge Networks
This 9PX rack-mount online double-conversion UPS system provides reliable, low-maintenance battery backup and AC power protection against blackouts, brownouts, surges and line noise that can damage valuable IT equipment or destroy data. Ideal for locations that are difficult to access or infrequently maintained, the 9PX2000RTN-L is an efficient “set it and forget it” solution. It’s ideal power management for education, commercial, financial or healthcare networking components, including Cisco switches and servers.
Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages
The hot-swappable maintenance-free lithium-ion battery modules have a service life of 8 to 10 years. They allow you to work through short power failures and give you enough time to safely save files and shut down your system in case of a prolonged blackout. Exclusive ABM technology increases battery life by 50 percent and closely monitors battery health to provide advanced notice when batteries need replacing. These lithium iron phosphate (LFP) batteries provide 80 to 120 percent more runtime at full load than equivalent lead-acid UPS systems while weighing up to 40 percent less, reducing the overall UPS weight.
Supports External Batteries for Scalable Extended Runtime
For mission-critical applications demanding continuous uptime, the UPS supports the connection of up to four expanded battery modules (9PXEBM72RT-L, sold separately) for hours of extended runtime.
Included Gigabit Network Interface Offers 24/7 Remote Access
The NETWORK-M3 network card enables full remote configuration and management, including load shedding, reboots of connected equipment and safe shutdowns. UPS firmware can also be flashed remotely through the NETWORK-M3 without dropping the load, so you don’t have to plan for downtime. The card meets both UL 2900-1 and IEC 62443-4-2 standards for cybersecurity, which were developed to address the vulnerability of connected devices to known malware/exploits and to protect business from these risks. The optional Environmental Monitoring Probe Gen 2 (EMPDT1H1C2, sold separately) provides a variety of environmental monitoring capabilities, including temperature and humidity conditions.
NEMA Outlets Protect Your Connected Components
One L5-20R and six 5-20R managed outlets provide connected equipment with pure sine wave AC output and allow you to monitor power consumption down to the outlet group level. Power provided by these outlets is filtered to protect connected equipment against damaging surges and line noise. Four 5-20R outlets are grouped into two load banks that let you shed non-critical loads to extend runtime for critical loads.

Highlights

- Keeps equipment running during outages to allow time for file saves and safe shutdown
- Improved lithium-ion batteries have service life up to 10 years - set it and forget it!
- Provides 80% to 120% more runtime at full load than equivalent lead-acid UPS systems
- Interactive LCD interface keeps you updated on critical load information in real time
- Included Gigabit network card enables full remote access and management 24/7

Package Includes

- 2000VA 1800W 120V 9PX Online Double-Conversion UPS with 7 Outlets
- NETWORK-M3 Gigabit network card
- USB cable
- RS-232 cable
- Rack-mounting hardware
- Tower support stands
- Safety guide
- Quick Start Guide

Rotating LCD Interface Keeps You Informed at a Glance
The high-contrast front-panel LCD provides control settings and critical information to help diagnose any issues. The interface rotates to accommodate both rack-mount and tower configurations, and it tilts up to 45 degrees for more comfortable viewing.
Advanced Communications Ports Allow for Automatic Saves and Shutdowns
RS-232 and USB ports connect to a serial-enabled device for a variety of communication options (cables are included). A dry-contact relay port can be programmed through the LCD to provide reliable communications to automation and industrial components. The RPO/ROO port permits emergency shutdown or remote restart of all connected equipment.
Versatile Installation Options
You can mount the 9PX2000RTN-L in just 2U of space in an EIA-standard 19-inch rack using the included 4-post rail kit or an optional 2-post rail kit (RK2PC, sold separately). You can also adapt it for tower installation using the included support stands. The eight-foot power cord with NEMA 5-20P plug connects to a compatible AC outlet.

Specifications

OVERVIEW	
UPC Code	786689526177
UPS Type	On-Line
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	16A
Nominal Input Voltage(s) Supported	100V AC; 110V AC; 120V AC
UPS Input Connection Type	5-20P
UPS Input Cord Length (ft.)	8
UPS Input Cord Length (m)	2.4
Input Plug Type	NEMA 5-20P
OUTPUT	
Output Capacity (VA)	2000
Output Capacity (kVA)	2
Output Capacity (Watts)	1800
Output Capacity (kW)	1.8
Power Factor	0.9
Crest Factor	3:1
Nominal Voltage Details	100V, 110V, 120V, 125V
Frequency Compatibility	50 / 60 Hz
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	100V; 110V; 120V; 125V
Output Receptacles	(6) 5-20R; (1) L5-20R

Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Lithium-ion (LiFePO4)
Runtime Full Load (min.)	13.6 min. (1800W)
Runtime Half Load (min.)	26 min. (900W)
Expandable Runtime	Yes
Expandable Runtime Description	Add up to 4 extended battery modules (EBM). Part number 9PXEBM72RT-L
DC System Voltage (VDC)	72
Battery Access	Battery access door
Battery Replacement Description	Hot-swappable, replaceable batteries. Part number EBP-1609-L
Battery Management	Integrated battery management system (BMS) for temperature regulation and life cycle monitoring
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LCD Display	LCD graphical display
Switches	RPO / ROO
Alarm Cancel Operation	Press ESC to silence the alarm
Audible Alarm	Audible alarm indicates utility failure, low-battery, overload, other UPS/Battery fault or remote shutdown conditions
LED Indicators	4 status-indicating LEDs
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	190
UPS AC Suppression Response Time	0 ms
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Primary Form Factor	Rackmount; Tower
Rack Height	2U
Cooling Method	Fan
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount; Tower
Installation Form Factors Supported with Optional Accessories	2 post rackmount (RK2PC)
Minimum Required Rack Depth (cm)	68.58
Minimum Required Rack Depth (inches)	27
Unit Dimensions (hwd / in.)	3.400 x 17.300 x 23.800
Unit Weight (lbs.)	51.600

Unit Weight (kg)	23.41
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Relative Humidity	0-96% non-condensing
AC Mode Efficiency Rating (100% Load)	91.4
AC Economy Mode Efficiency Rating (100% Load)	96.8
Online Mode Heat Dissipation (BTU/Hr) @ Full Load	578
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	974
COMMUNICATIONS	
Network Management Cards	Network-M3 ; INDGW-M2 ; RELAY-MS
Communications Interface	Pre-installed network card; RS-232; USB
APPLICATIONS	
UPS Applications	Mission Critical Applications
STANDARDS & COMPLIANCE	
Product Certifications	cUL Listed; NOM (Mexico); EN 62040-2
Product Compliance	CE (Europe); FCC Part 15 Class B (USA); RoHS
WARRANTY & SUPPORT	
Product Warranty Period (U.S. & Canada)	5-year limited warranty

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