

## 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-M2 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-M2 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

#### **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-M2 Gigabit network card
- USB cable
- RS-232 cable
- · Rack-mounting hardware
- Tower support stands
- Safety guide
- Quick Start Guide



loads.

#### 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	
Plug Type	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 Individually Controllable Load Banks Yes  BATTERY  Battery Type Lithium Ion Runtime Full Load (min.) Runtime Half Load (min.) Expandable Runtime Yes  Expandable Runtime Description Add up to 4 extended battery modules (EBM). Part number <a &="" (bms)="" (vdc)="" 0="" 190="" 2u<="" 4="" 72="" ac="" access="" alarm="" alerts="" and="" audible="" batteries.="" battery="" cancel="" class="prod hrdf=//tripplite.eaton.com/eaton-spx-external-battery-lithium-72v-1u-9PXEBM72! DC System Voltage (VDC) 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 USER INTERFACE, ALERTS &amp; CONTROLS Front Panel LCD Display LCD graphical display Switches RPO / ROO Alarm Cancel Operation Press ESC to silence the alarm Audible Alarm Audible Alarm Audible alarm indicates utility failure, low-battery, overload, other UPS/Battery fau LED Indicators 4 status-indicating LEDs SURGE / NOISE SUPPRESSION UPS AC Suppression Joule Rating 190 UPS AC Suppression Response Time EMI / RFI AC Noise Suppression Yes PHYSICAL Primary Form Factor Rackmount; Tower Rack Height 2U Cooling Method Fan&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Individually Controllable Load Banks BATTERY Battery Type&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;BATTERY Battery Type&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Battery Type Lithium Ion Runtime Full Load (min.) 13.6 min. Runtime Half Load (min.) 26 min. Expandable Runtime Description Add up to 4 extended battery modules (EBM). Part number &lt;a class=" controls="" dc="" description="" display="" door="" eaton-9px-external-battery-lithium-72y-1u-9pxebm721="" ebp-1609-l="" emi="" esc="" factor="" failure,="" fau="" fire"="" for="" form="" front="" graphical="" height="" hot-swappable,="" indicates="" indicators="" integrated="" interface,="" joule="" lcd="" led="" leds="" life="" low-battery,="" management="" ms="" noise="" number="" operation="" other="" overload,="" panel="" part="" physical="" press="" primary="" proding="" rack="" rackmount;="" rating="" regulation="" replaceable="" replacement="" response="" rfi="" roo="" rpo="" silence="" status-indicating="" suppression="" surge="" switches="" system="" td="" temperature="" the="" time="" to="" tower="" tripplite.eaton.com="" ups="" user="" utility="" voltage="" yes=""><td></td></a>			
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Primary Form Factor Rackmount; Tower  Rack Height 2U			
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 ( <a class="productLink" href="//tripplite.eaton.com/eaton ups~RK2PC">RK2PC</a> ~ )	n-2-post-rack-mount-rail-kit-for-9px-		
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	<a class="productLink" href="//tripplite.eaton.com/eaton-secure-gigabit-network-card-for-ups-systems~NETWORK-M2">NETWORK-M2</a> ; <a class="productLink" href="//tripplite.eaton.com/eaton-industrial-gateway-card-mini-slot-for-ups-systems~INDGW-M2">INDGW-M2"&gt;IN</a>	
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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