

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

MODEL NUMBER: 9PX2000RTN



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 Battery Backup for IT Installations and Edge Networks

This 9PX rack-mount online double-conversion UPS system provides reliable battery backup and AC power protection against blackouts, brownouts, surges and line noise that can damage valuable IT equipment or destroy data. The 9PX2000RTN is superlative power management for education, commercial, financial or healthcare networking components, including Cisco switches and servers.

#### Expandable Internal Battery Backup Keeps You Operational Through Power Outages

The field-replaceable, hot-swappable valve regulated lead acid (VRLA) battery modules 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. You can also connect up to four extended battery modules (9PXEBM72RT, sold separately) for hours of extended runtime.

#### Included Gigabit Network Interface Offers 24/7 Remote Access

The NETWORK-M2 Gigabit 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 loads.

### Highlights

- Keeps equipment running during outages to allow time for file saves and safe shutdown
- Included NETWORK-M2 Gigabit network card enables full remote access and control
- NEMA outlets split into separate switched banks for managed load shedding
- Interactive LCD interface keeps you updated on critical load information in real time
- Optional extended battery modules allow extended runtime to keep equipment powered

### 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



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**Rotating LCD Interface Keeps You Informed at a Glance**

The intuitive 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 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                           | 743172081636              |
| UPS Type                           | On-Line                   |
| INPUT                              |                           |
| 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                     |
| Input Phase                        | Single-Phase              |
| 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            |



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| Nominal Output Voltage(s) Supported                           | 100V; 110V; 120V; 125V   |
| Output Receptacles  | (6) 5-20R; (1) L5-20R  |
| Individually Controllable Load Banks                          | Yes  |
| <b>BATTERY</b>  |  |
| Battery Type  | Valve Regulated Lead Acid (VRLA)   |
| Runtime Full Load (min.)                                      | 8  |
| Runtime Half Load (min.)                                      | 20   |
| Expandable Runtime  | Yes  |
| Expandable Runtime Description                                | Add up to 4 extended battery modules (EBM). Part number <a href="http://www.tripplite.com/eaton-9px-external-battery-for-9px3000rt-9px3000grt-9px3000glrt-9px2000rt-9px2200grt-2u~9PXEBM72RT">9PXEBM72RT</a> |
| DC System Voltage (VDC)                                       | 48   |
| Battery Access  | Battery access door  |
| Internal UPS Replacement Battery Cartridge                    | <a href="http://www.tripplite.com/replacement-battery-for-eaton-9px-ups-and-ebm~744-A3121">744-A3121</a>   |
| Battery Replacement Description                               | Hot-swappable, user replaceable batteries. UPS requires 1 Replacement Battery Cartridge.   |
| Battery Management  | ABM technology (3-stage charging extends battery service life by 50% and provides advance warning for battery replacement)   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b>                  |  |
| 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   |
| <b>SURGE / NOISE SUPPRESSION</b>                              |  |
| UPS AC Suppression Joule Rating                               | 190  |
| UPS AC Suppression Response Time                              | 0 ms   |
| EMI / RFI AC Noise Suppression                                | Yes  |
| <b>PHYSICAL</b>   |  |
| Primary Form Factor   | Rackmount; Tower   |
| Rack Height   | 2U   |
| Cooling Method  | Fan  |
| Installation Form Factors Supported with Included Accessories | 4 post 19 inch rackmount; Tower  |



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| Minimum Required Rack Depth (cm)              | 68.07  |
| Minimum Required Rack Depth (inches)          | 26.8   |
| Unit Dimensions (hwd / in.)                   | 3.400 x 17.300 x 23.800  |
| <b>ENVIRONMENTAL</b>                          |  |
| Operating Temperature Range                   | 0° to 40°C (32° to 104°F)  |
| Relative Humidity                             | 0-96% non-condensing   |
| AC Mode Efficiency Rating (100% Load)         | 91.4   |
| AC Economy Mode Efficiency Rating (100% Load) | 96.8   |
| <b>COMMUNICATIONS</b>                         |  |
| Network Management Cards                      | <a href="#">NETWORK-M2</a> & <a href="#">INDGW-M2</a> & <a href="#">RELAY-MS</a>   |
| Communications Interface                      | Pre-installed network card; RS-232; USB  |
| <b>STANDARDS &amp; COMPLIANCE</b>             |  |
| Product Certifications                        | cUL Listed; NOM (Mexico); EN 62040-2; EN 55022   |
| Product Compliance                            | FCC Part 15 Class B (USA); CE (Europe); ENERGY STAR Qualified; VCCI (Japan); RoHS  |
| <b>WARRANTY &amp; SUPPORT</b>                 |  |
| Product Warranty Period (U.S. & Canada)       | 2-year limited warranty  |
| Extended Service Plans                        | <b>ADVANCED DEPOT EXCHANGE</b> 5-YEAR DEPOT REPAIR: 9SW5Y-2200UC Expedited parts coverage for 5 years Parts, electronics and UPS batteries coverage Next business day shipping Technical support <b>5-YEAR ON-SITE PLAN: WFLN75XX-2509UC</b> On-site parts and labor coverage for years 5 Parts, electronics and UPS batteries coverage 24x7 on-site labor coverage, next-day response Next-day shipping Technical support |



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