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# 93PX 20000VA 20000W N+1 40000VA 40000W 400V 3-Phase Online Double-Conversion UPS - Hardwired Input/Output, Maintenance Bypass, Cybersecure Network Cards, Extended Run, 21U

MODEL NUMBER: 93PX20KHWNPAR



Provides sine wave output, complete battery backup and power protection for mission-critical edge and data center applications.

## Features

### 20kVA/20kW (N+1) or 40kVA/40kW 400V 3-Phase UPS for Edge and Data Center Applications

This 93PX rack-mount UPS provides reliable AC power protection against blackouts, brownouts, surges and line noise that can damage valuable IT equipment or destroy data. The 93PX20KHWNPAR UPS is superlative power management for education, commercial, industrial, financial or healthcare networking components.

### High-Density IT Infrastructure

The 93PX20KHWNPAR UPS provides up to 20,000 watts of critical backup power with N+1 redundancy for your critical applications, or it can provide 40,000 watts without N+1. Its small rack footprint and high power density save valuable data center white space. Intuitive 4.3-inch (109-millimeter) touchscreen LCD control panels provide control settings and critical information to help diagnose any issues and monitor/control power in distributed and edge deployments. This UPS provides up to 98.6 percent efficiency in ECO mode to reduce energy consumption and operating costs.

### Market-Leading Cybersecurity Ensures Your Network Is Kept Safe

Chain-of-trust encryption and secure firmware boot capability prevent the 93PX20KHWNPAR from being a cyberattack vulnerability point on a network. Enhanced management and cybersecurity features include zero-trust architecture, zero-touch provisioning and a user-configurable firewall.

### Compatible with Brightlayer Data Centers Suite Software

The 93PX20KHWNPAR integrates smoothly via SNMP with digital solutions from Eaton's Brightlayer Data Centers suite. This includes Distributed IT Performance Management (DITPM) and Data Center Performance Management (DCPM) software. DITPM allows you to manage and control assets installed at your remote locations, as well as proactively identify and automate actions to prevent IT equipment downtime. DCPM monitors and manages your power, space, connectivity and cooling resources across one or more facilities while charting trends, sending alerts and generating reports.

### Ready for Virtualization, HCI and Generative AI

Brightlayer software provides simple yet powerful fleet management. You can remotely manage UPS systems in diverse IT environments across multiple distributed sites from one location, maintain uptime and improve operational efficiency. Brightlayer also enables intelligent coordination with virtualized,

## Highlights

- Innovative quick-connect design for easy plug-and-play deployment and service
- Up to 98.6% energy efficiency in ECO mode to save energy and operating costs
- Unity power factor (1.0) and high power density to save data center white space
- Cybersecure network cards enable full remote access and control 24/7
- Parallel maintenance bypass panel doubles capacity or enables N+1 redundancy

## Package Includes

- (2) 93PX20KIPMB 3U power modules
- (2) NETWORK-M3 Gigabit network cards
- (2) 93PX2EBM480U 6U extended battery modules
- MBP20KIUPARA 3U parallel maintenance bypass panel
- Rack-mounting hardware
- Assorted cabling
- User documentation



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hyperconverged and generative AI infrastructure, including complex orchestrations during blackouts and other power events to extend runtime and preserve data.

**Battery Backup Keeps You Operational Through Power Outages**

The field-replaceable, hot-swappable extended battery modules allow you to work through power failures and give you enough time to safely save files and shut down your system in case of a prolonged blackout. You can connect up to four 93PX2EBM480U battery modules for extended runtime.

**Included Gigabit Network Cards Offers 24/7 Remote Access and Cybersecurity**

The NETWORK-M3 cybersecure network management cards enable full remote configuration and management, including load shedding, reboots of connected equipment and safe shutdowns. The cards meet 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.

**Included Maintenance Bypass for Critical Equipment**

The parallel maintenance bypass panel lets you service or replace the UPS power modules without powering down any connected equipment. It also enables N+1 redundancy or double capacity to increase fault tolerance and help maintain constant uptime. Input and output are hardwired.

**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). The EPO connector permits emergency shutdown of all connected equipment.

**Innovative Quick-Connect Design for Easy Plug-and-Play Deployment and Service**

Interconnections between the UPS power modules, parallel maintenance bypass panel and extended battery modules provide easy plug-and-play setup and serviceability. You can mount all UPS modules in an EIA-standard 19-inch rack using the included hardware, and connect the modules together using the included cables.

## Specifications

OVERVIEW	
UPC Code	037332295798
Nominal Voltage / Frequency	50Hz
VA / Watt Capacity	40000
UPS Type	On-Line
INPUT	
Input Phase	3-Phase
Rated input current (Maximum Load)	40A
Nominal Input Voltage(s) Supported	230/400V 3-PH Wye
Nominal Input Voltage Description	3-Phase Wye, 5 wire plus ground (L1, L2, L3, N, G)
UPS Input Connection Type	Hardwire
Power Factor (Input)	0.995
THDi	<3%
OUTPUT	
Output Capacity (VA)	20000



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Output Capacity (kVA)	20
Output Capacity (Watts)	40000
Output Capacity (kW)	40
Output Capacity Details	N+1 Parallel for capacity up to 40kVA
Power Factor	1
Crest Factor	3:1
Frequency Compatibility	50 / 60 Hz
Output Voltage Regulation (Line Mode)	+/- 1%
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	230/400V 3-PH Wye
Output Nominal Voltage	400V
Output Voltage Regulation	+/- 1%
Output Frequency Regulation	+/- 0.1%
Output Amp Capacity	30.3A
<b>BATTERY</b>	
Runtime Full Load (min.)	Parallel for redundancy 8mins30s @ 2 set EBM and Parallel for capacity 2mins25s @ 2 set EBM
Runtime Half Load (min.)	Parallel for redundancy 25mins24s @ 2 set EBM and Parallel for capacity 9mins36s @ 2 set EBM
DC System Voltage (VDC)	+/- 240
Battery Recharge Rate (Included Batteries)	< 3hrs to 90%
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Online, double-conversion power conditioning maintains output within 1% of the selected nominal voltage in online mode
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
Front Panel LCD Display	4.3 inch color touch screen
<b>PHYSICAL</b>	
Primary Form Factor	Rackmount
Cooling Method	Fans
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Unit Dimensions (hwd / in.)	35.560 x 17.240 x 28.100
<b>ENVIRONMENTAL</b>	



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Audible Noise	65dB max
Operating Temperature	32° to 104°F (0° to 40°C)
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Certifications	IEC/EN 62040; UL 1778
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (U.S. & Canada)	2-year limited warranty
Product Warranty Period (International)	1-year limited warranty
Product Warranty Period (Mexico)	1-year limited warranty
Product Warranty Period (Puerto Rico)	1-year limited warranty

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