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93PX 20000VA 20000W N+1 208V 3-Phase Online Double-Conversion UPS - Hardwired Input/Output, Maintenance Bypass, Cybersecure Industrial Gateway Cards, Extended Run, 21U

MODEL NUMBER: 93PX20KHWINDPAR



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

Features

20kVA/20kW/208V 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 93PX20KHWINDPAR UPS is superlative power management for education, commercial, industrial, financial or healthcare networking components.

High-Density IT Infrastructure

The 93PX20KHWINDPAR UPS provides up to 20,000 watts of backup power for your critical applications. Its small rack footprint and high power density save valuable data center white space. Intuitive 3.5-inch (89-millimeter) color 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 97 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 93PX20KHWINDPAR 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 93PX20KHWINDPAR 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, hyperconverged and generative AI infrastructure, including complex orchestrations during blackouts and

Highlights

- Innovative quick-connect design for easy plug-and-play deployment and service
- Up to 97% 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 allow full UPS remote access and control 24/7
- Parallel maintenance bypass panel enables N+1 redundancy to maintain uptime

Package Includes

- (2) 93PX20KPM 3U power modules
- (2) INDGW-M3 industrial cards
- (4) 93PXEBM240 3U extended battery modules
- 93PXMBPARA20KHW 3U parallel maintenance bypass panel
- Rack-mounting hardware
- Assorted cabling
- User documentation



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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 10 battery modules for extended runtime.

Included Industrial Gateway Cards Certified to Strict UL Cybersecurity Standards

The INDGW-M3 combines the features of an SNMP agent, HTTP/web server and Modbus/BACnet card to facilitate 24/7 remote monitoring of your UPS system. It meets both UL 2900-1 and IEC 62443-4-2 cybersecurity standards, empowering IT professionals with superior Gigabit speed, capabilities and features, while ensuring the highest level of defense against emerging cybersecurity threats. Security enhancements include strong encryption, configurable password policy and usage of CA and PKI signed certificates.

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 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	037332295583
Nominal Voltage / Frequency	208V/60Hz
VA / Watt Capacity	20000
UPS Type	On-Line
INPUT	
Input Phase	3-Phase
Rated input current (Maximum Load)	71A
Nominal Input Voltage(s) Supported	120/208V 3-PH Wye
Nominal Input Voltage Description	3-PHASE 208V WYE
UPS Input Connection Type	Hardwire
Input Circuit Breakers	via the MBP, 100A
Input Connection Type	Hardwire
Input Frequency	60Hz
Power Factor (Input)	1



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THDi	< 4% full load
OUTPUT	
Output Capacity (VA)	20000
Output Capacity (kVA)	20
Output Capacity (Watts)	20000
Output Capacity (kW)	20
Power Factor	1
Crest Factor	3:1
Frequency Compatibility Details	50/60Hz $\pm$ 4Hz
Output Voltage Regulation (Line Mode)	$\pm$ 1%
Output Circuit Breakers	63A 3 pole magnetic breaker
Output AC Waveform (AC Mode)	Pure Sine Wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	120/208V 3-PH Wye
Output Receptacles	Hardwire
Individually Controllable Load Banks	No
BATTERY	
Expandable Runtime	Yes
Expandable Battery Runtime	YES, UP TO 5 EBM PER POWER MODULE
Expandable Runtime Description	EXPANDABLE RUNTIME DEPENDS ON THE NUMBER OF ADDITIONAL EBM ADDED AND UP TO 5 EBM PER POWER MODULE.
DC System Voltage (VDC)	$\pm$ 120 Vdc
Battery Recharge Rate (Included Batteries)	4A FOR BASE MODEL WITH TWO EBMS, AND INCREASES BY 4A FOR EVERY ADDITIONAL TWO EBM UP TO 5 X EBM FOR 10
Replacement Battery Cartridge	NO, THE COMPLETE EBM NEEDS TO BE REPLACED
Battery Replacement Description	TO REPLACE THE COMPLETE EBMS THE UPS MUST BE PUT IN MANUAL BYPASS MODE
Typical Battery Lifespan	BETWEEN 3.5YRS AND UPT 6YEARS DEPENDING ON THE MAINTENANCE AND ENVIRONMENTAL TEMPERATURE
PHYSICAL	
Primary Form Factor	Rackmount
Cooling Method	Fans
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Unit Dimensions (hwd / in.)	36.000 x 17.244 x 32.250



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ENVIRONMENTAL	
Audible Noise	< 67 dB
Operating Temperature	32° to 104°F (0° to 40°C)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

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