3.7kW Single-Phase 230V ATS/Monitored PDU, IEC309 16A Blue Outlet, 2 IEC309 16A Blue Inputs, 1U Rack-Mount

MODEL NUMBER: **PDUMNH16HVAT**

Highlights

- Two IEC309 16A Blue (2P+E) inputs with 10 ft. cords
- IEC309 16A Blue outlet (2P+E) for connecting device or 0U PDU
- Automatic transfer switching within 1–5 ms
- Ethernet network interface for remote access
- Digital display with LEDs for real-time status monitoring

Package Includes

- PDUMNH16HVAT 3.7kW Single-Phase 230V ATS/Monitored PDU
- Rack-mounting brackets
- Owner's manual

Description

The PDUMNH16HVAT 3.7kW Single-Phase 230V ATS/Monitored PDU provides remote power monitoring and enables redundant power for network devices with non-redundant power supply configurations. Ideal for data centers and server rooms, it mounts in 1U of space in EIA-standard 19-inch racks and has an IEC309 16A Blue outlet for connecting a single device or a 0U 230V vertical PDU with IEC309 16A Blue plug.

Dual 10-foot input cords with IEC309 16A Blue plugs connect to separate primary and secondary single-phase power sources, including out-of-phase sources. The PDU constantly evaluates the power quality of both input sources. Dynamic solid-state (TRIAC) automatic transfer switching allows the PDU to switch to the secondary source within 1–5 milliseconds if the primary source fails or becomes unstable to ensure connected equipment remains powered.

Built-in Ethernet network interface allows remote access to the PDU for power monitoring, configuration, control and notifications via web browser, SSH, telnet or SNMP. Provides real-time load/current data with billing-grade accuracy (+/- 1 percent). Tiered access privileges allow both an administrator and a guest to log in. Automated alerts help prevent overloads, power loss and downtime. Digital display with LEDs indicates power availability, voltage, input status for both power sources, output load and power factor, as well as temperature and humidity conditions with the optional ENVIROSENSE module (sold separately).

Features

Primary and Secondary Inputs for Power Redundancy

- Offers remote power monitoring and enables redundant power for network devices with non-redundant power supply configurations
- IEC309 16A Blue (2P+E) inputs with 10 ft. cords connect to separate primary and secondary single-phase power sources
- Fault-tolerant, hot-swappable UPS protection when used with single UPS; fully redundant UPS protection when each cord is connected to a separate UPS

Built-In IEC309 16A Blue Outlet

- Powers a single device or indirectly powers equipment through a 0U 230V PDU with IEC309 16A Blue input (sold separately)

Automatic Transfer Switching

- Dynamic solid-state (TRIAC) automatic transfer switching

- Switches to secondary power source if primary source fails or becomes unstable
- 1–5 ms transfer time ensures uninterrupted operation of connected equipment
- Built-in processor monitors power sources and prevents switching if secondary source is unavailable or of lower quality than primary source

Multifunction Digital Display with LEDs

- Reports input status for primary and secondary power sources, power availability, line voltage, frequency, amps, kilowatts and power factor

Advanced Network Monitoring

- Built-in Ethernet network interface allows full remote access for power monitoring, configuration, control and notifications via web browser, SSH, telnet or SNMP
- Real-time load/current data with billing-grade accuracy (+/- 1 percent)
- Tiered access privileges allow both an administrator and guest to log in
- Optional ENVIROSENSE module (sold separately) monitors temperature and humidity

Broad Communications Compatibility

- Supports HTTP, HTTPS, PowerAlert® Network Management System, SMTP, SNMPv1, SNMPv2, SNMPv3, Telnet, SSH, FTP, DHCP, BOOTP and NTP
- 10/100 Mbps auto-sensing for communication with 10/100 Base-T networks

Mounts Horizontally in 1U of Rack Space

- Compatible with EIA-standard 19 in. 4-post racks and rack enclosures
- Optional PDU4PKIT rail kit (sold separately) adds rear mounting support

Specifications

OVERVIEW	
PDU Type	Monitored; Auto-Transfer Switch
OUTPUT	
Output Capacity Details	3.8kW (240V); 3.7kW (230V); 3.5kW (220V); 3.3kW (208V); 3.2kW (200V); 16A maximum
Frequency Compatibility	50 / 60 Hz
Output Receptacles	(1) IEC309 16A BLUE (2P+E)
Output Nominal Voltage	240, 230, 220, 208, 200
Overload Protection	n/a
INPUT	
PDU Input Voltage	200; 208; 220; 230; 240
Recommended Electrical Service	16A 230V
Maximum Input Amps	16
PDU Plug Type	(2) IEC-309 16A BLUE (2P+E)
Input Cord Details	Set of two inputs connect to separate PRIMARY and SECONDARY power sources

Input Cord Length (ft.)	10
Input Cord Length (m)	3.05
Input Phase	Single-Phase

USER INTERFACE, ALERTS & CONTROLS

Front Panel LCD Display	Digital display reports input current in amps (Source A, Source B), output kilowatts (total), input voltage (Source A, Source B), input frequency (Source A, Source B) and output power factor
Front Panel LEDs	Front panel LEDs confirm amp (A) / kilowatt (kW) / voltage (V) / frequency (Hz) and power factor (PF) reporting information; Additional set of LEDs indicate Source A and Source B inputs for preferred, available and in-use status
Switches	ENTER and MODE switches toggle the digital display to display all reported information

PHYSICAL

Minimum Required Rack Depth (inches)	17.5
Minimum Required Rack Depth (cm)	44.45
Shipping Dimensions (hwd / in.)	7.48 x 21.65 x 20.67
Shipping Dimensions (hwd / cm)	19 x 55 x 52.5
Shipping Weight (lbs.)	17.36
Shipping Weight (kg)	7.89
Unit Dimensions (hwd / in.)	1.72 x 16.93 x 14
Unit Dimensions (hwd / cm)	4.4 x 43 x 35.6
Unit Weight (lbs.)	17.36
Unit Weight (kg)	7.87
Material of Construction	Metal
Form Factors Supported	1U rackmount
PDU Form Factor	1U; Horizontal
Minimum Required Rack Depth (mm)	444

ENVIRONMENTAL

Operating Temperature Range	32 to 122F (-15 to 50C)
Storage Temperature Range	5 to 140F (-15 to 60C)
Relative Humidity	5 to 95% (non-condensing)
Operating Elevation (ft.)	0-10,000
Operating Elevation (m)	0-3000

CERTIFICATIONS

Certifications	Tested to CE (IEC60950-1+A1,A2; Class A)

WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty