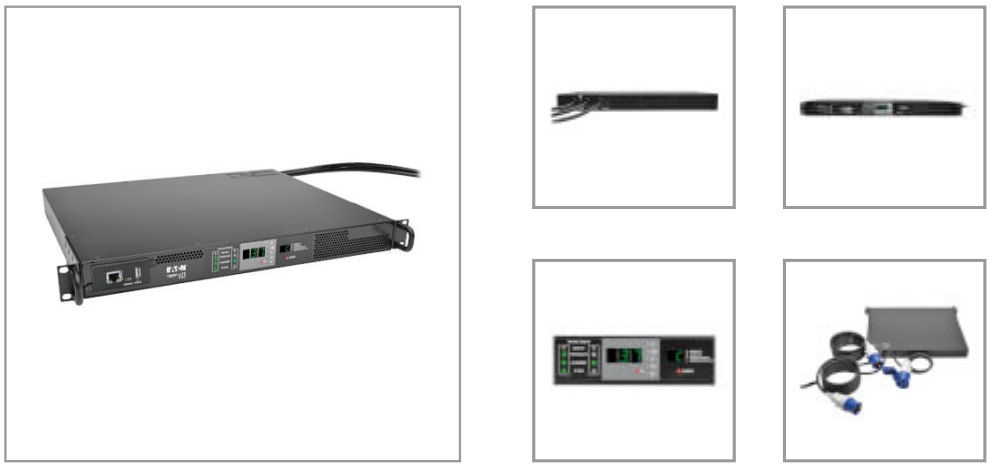
3.8kW Single-Phase Monitored Automatic Transfer Switch PDU, 2 200-240V IEC309 16A Blue Inputs, 1 IEC309 16A Blue Outlet, 1U

MODEL NUMBER: **PDUMNH16HVAT**



High-capacity 3.8kW PDU with ATS provides remote power monitoring and enables redundant power for non-redundant hardware. Digital display and Ethernet interface allow load monitoring to prevent overloads that cause downtime.

Highlights

- Two IEC309 16A Blue (2P+E) inputs with 10-ft. (3.05 m) cords
- IEC309 16A Blue outlet (2P+E) for connecting device or 0U PDU
- Automatic transfer switching within 1-5 ms
- Built-in LX Platform network interface for remote access
- Digital display with LEDs for real-time status monitoring

Package Includes

- PDUMNH16HVAT 3.8kW Single-Phase 200-240V ATS/Monitored PDU
- Rack-mounting brackets
- Owner’s manual

Description

The PDUMNH16HVAT 3.8kW Single-Phase 200-240V Monitored Automatic Transfer Switch / ATS 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-ft. (3.05 m) 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 LX Platform network management interface. The Java-free LX Platform HTML5-based network interface enables full remote access for PDU status monitoring and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Optional EnviroSense2 modules (sold separate) provide a variety of environmental monitoring capabilities. Protocols supported include HTTP, HTTPS, SMTP, SNMPv1, SNMPv2, SNMPv3, telnet, SSH, FTP, DHCP and NTP. 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 optional ENVIROSENSE2 module (sold separate).

Features

Primary and Secondary Inputs for Power Redundancy Offers remote power monitoring and enables redundant power for network devices with non-redundant power supply configurationsIEC309 16A Blue (2P+E) inputs with 10-ft. (3.05 m) cords connect to separate primary and secondary single-phase power sourcesFault-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 The PDUMNH16HVAT rack PDU (rPDU) 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 switchingSwitches to secondary power source if primary source fails or becomes unstable1-5 ms transfer time ensures uninterrupted operation of connected equipmentBuilt-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 MonitoringLX Platform interface allows full remote access for power monitoring with email notifications via secure web browser, SNMP, telnet or SSHReal-time load/current data with billing-grade accuracy (+/- 1 percent)Optional EnviroSense2 modules (sold separately) provide a variety of environmental monitoring capabilities

Broad Communications CompatibilityHTTP, HTTPS, SMTP, SNMPv1, SNMPv2, SNMPv3, telnet, SSH, FTP, DHCP 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 enclosuresOptional PDU4PKIT rail kit (sold separately) adds rear mounting support

Specifications

OVERVIEW	
UPC Code	037332186560
PDU Type	Monitored; Auto-Transfer Switch
INPUT	
Input Phase	Single-Phase
PDU Input Voltage	200; 208; 220; 230; 240
Recommended Electrical Service	Two single-phase 16A 200-240V circuits
Maximum Input Amps	16
Maximum Input Amps Details	Agency de-rated to 16A continuous
PDU Plug Type	(2) IEC-60309 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
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	200-240V
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
Current Measurement Accuracy (Amps)	+/-1%
Voltage Measurement Accuracy (Volts)	+/-1%
Power Measurement Accuracy (Watts)	+/-1%
SURGE / NOISE SUPPRESSION	
Automatic Shut-Off	No
PHYSICAL	
Material of Construction	Metal
Rack Height	1U
Form Factors Supported	1U rackmount
Minimum Required Rack Depth (cm)	44.45
Minimum Required Rack Depth (inches)	17.5
PDU Form Factor	Horizontal (1U)
Shipping Dimensions (hwd / in.)	7.20 x 20.50 x 21.10
Shipping Dimensions (hwd / cm)	18.29 x 52.07 x 53.59
Shipping Weight (lbs.)	16.70
Shipping Weight (kg)	7.57
Unit Dimensions (hwd / in.)	1.720 x 16.930 x 14.000
Unit Dimensions (hwd / cm)	4,4 x 43 x 35,6
Unit Weight (lbs.)	17.36
Unit Weight (kg)	7.87
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	-22° to 122°F (-30° to 50°C)
Relative Humidity	5% to 95% non-condensing
Operating Elevation	0-10000 ft. (0-3000 m)
COMMUNICATIONS	
PowerAlert Software	LX Platform Interface: PowerAlert Device Manager
Communications Cable	Micro-USB- to-USB A configuration/console Access cable
Network Monitoring Port	RJ45 Network port, Micro-USB Configuration port, USB A port supports a variety of Envirosense2 environmental and control modules. See Accessories>Management Hardware section for more information about these modules.
Network Compatibility	10 Mbps; 100 Mbps (Fast Ethernet)

FEATURES & SPECIFICATIONS	
High Availability PDU Features	Auto-Transfer Switching
STANDARDS & COMPLIANCE	
Product Certifications	EN 60950-1
Product Compliance	RoHS; CE (Europe)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

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