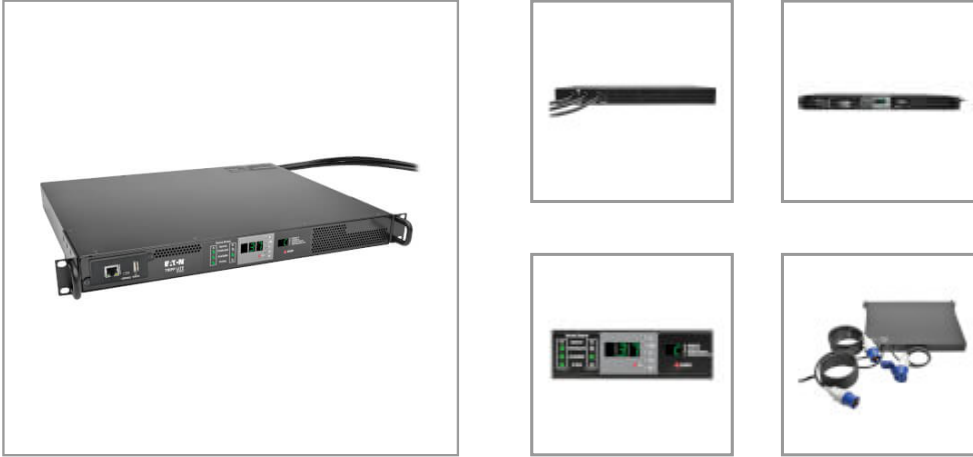# 3.8kW Single-Phase Monitored Automatic Transfer Switch PDU, 2 200-240V IEC309 16A Blue Inputs, 1 IEC309 16A Blue Outlet, 1U

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.

## 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 Monitoring**LX 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 Compatibility**HTTP, 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 |
| Switches | ENTER and MODE switches toggle the digital display to display all reported information |

| LED Indicators | 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 |
|---|---|
| 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 |