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Owner's Manual

PDUMH15AT, PDUMH15ATNET, PDUMH20AT, PDUMH20ATNET, PDUMH20HVAT, PDUMH20HVATNET

Switched/Metered Rack PDU with Automatic Transfer Switch

1111 W. 35th Street • Chicago, IL 60609 USA
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1. Important Safety Instructions

SAVE THESE INSTRUCTIONS

This manual contains instructions and warnings that should be followed during the installation, operation, and storage of this product. Failure to heed these instructions and warnings may affect the product warranty.

- The PDU provides convenient multiple outlets, but it DOES NOT provide surge or line noise protection for connected equipment.
- The PDU is designed for indoor use only in a controlled environment away from excess moisture, temperature extremes, conductive contaminants, dust or direct sunlight.
- Do not connect the PDU to an ungrounded outlet or to extension cords or adapters that eliminate the connection to ground.
- The power requirement for each piece of equipment connected to the PDU must not exceed the individual outlet's load rating.
- The total power requirement for equipment connected to the PDU must not exceed the maximum load rating for the PDU.
- Do not drill into or attempt to open any part of the PDU housing. There are no user-serviceable parts inside.
- Do not attempt to modify the PDU, including the input plugs and power cables.
- Do not attempt to use the PDU if any part of it becomes damaged.
- Do not attempt to mount the PDU to an insecure or unstable surface.
- Never attempt to install electrical equipment during a thunderstorm.
- Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

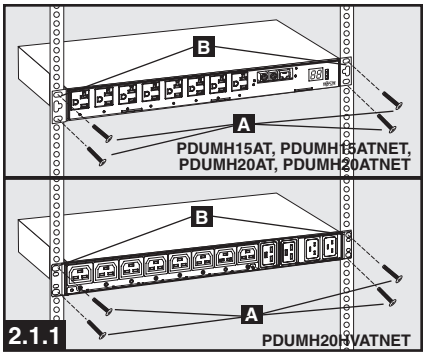
2. Installation

2.1 Mounting the PDU

The PDU supports 1U Rack configurations.

Note: The user must determine the fitness of hardware and procedures before mounting. The PDU and included hardware are designed for common rack and rack enclosure types and may not be appropriate for all applications. Exact mounting configurations may vary.

2.1.1 1U Rack Mounting: Attach the PDU to the rack by inserting four user-supplied screws **A** through the PDU mounting brackets **B** and into the mounting holes of the rack rail as shown.



2. Installation *(continued)*

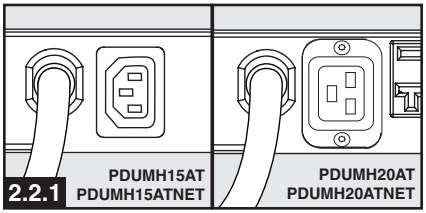
2.2 Connecting the PDU

The PDU includes two AC power inputs: Primary and Secondary. The Primary input cord is permanently attached to the rear of the PDU (120V models).

IEC-320-C14 inlet is used for the primary input of the 230V model.

The Secondary input cord is detachable and connects to the IEC power inlet **2.2.1** at the rear of the PDU (PDUMH15AT, PDUMH15ATNET - IEC-320-C14 inlet; PDUMH20AT, PDUMH20ATNET, PDUMH20HVAT, PDUMH20HVATNET - IEC-320-C20 inlet).

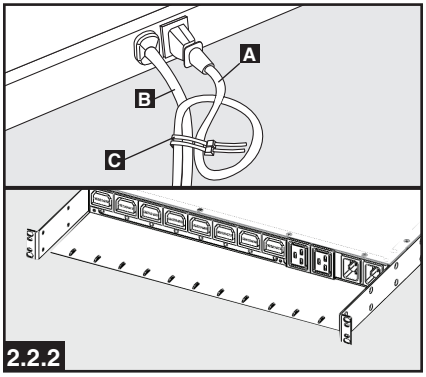
Primary Input (120V Models)



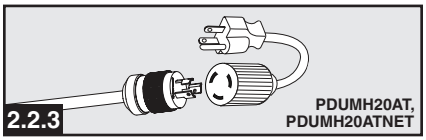
Primary Input (230V Model)

2.2.2 To connect the Secondary input cord:

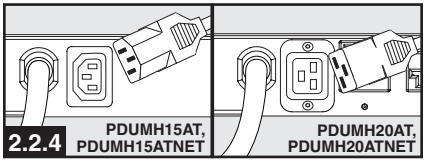
1. Form a loop in the Secondary cord **A** and secure the juncture of that loop to the Primary cord **B** with a zip tie. Be sure the zip tie is secured around the Secondary and Primary cords, as well as through the loop created in the Secondary cord **C**. (See diagram). ***Note:*** *Give the cord as much slack as possible between the loop and the cord's outlet.*
2. On Models PDUMH20HVAT and PDUMH20HVATNET, both cords should be tied to the Cable Retention Tray. (See diagram).
3. Once you've secured the two cords together and ensured that the Secondary cord has a comfortable amount of slack, insert the Secondary cord outlet into the IEC power inlet.



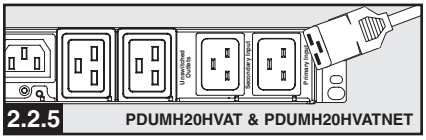
2.2.3 Connect Input Plug Adapters (Optional - Models PDUMH20AT, PDUMH20ATNET Only): The PDU includes two adapters that convert one or both of the L5-20P input plugs to 5-20P input plugs. Connecting the adapters is optional. The PDU will function normally without connecting the adapters.



2.2.4 Connect Secondary Input Cord to PDU: Although the PDU will operate without connecting the Secondary input cord, the Secondary input is required for the PDU's Automatic Transfer Switch function.



2.2.5 C19-C20 Cables (optional: Models PDUMH20HVAT and PDUMH20HVATNET only): The PDU includes two C19 to C20 interconnection cables for the two primary and secondary inlets, which may be used to connect to upstream UPS sources. Alternately, the user can supply IEC cables fitted with country-specific plugs.

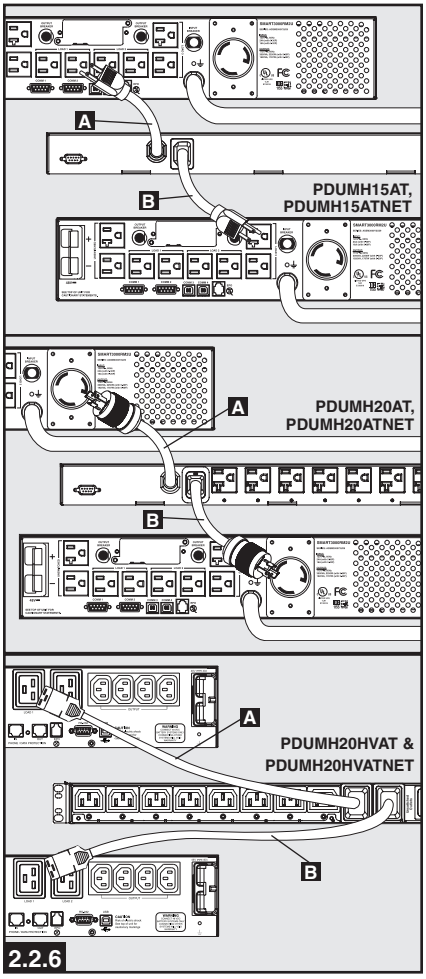


2. Installation *(continued)*

2.2 Connecting the PDU *(continued)*

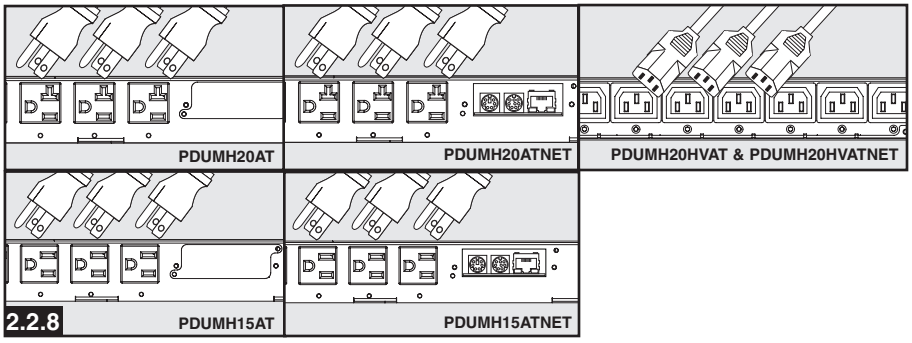
2.2.6 Connect PDU Input Plugs: (See the *Configuration and Operation* section for more information.) Connect the Primary input plug **A** to a preferred source of grounded 120V/230V AC power, such as a SmartOnline™ UPS System. The UPS system must not share a circuit with a heavy electrical load (such as an air conditioner or refrigerator). Under normal operating conditions, the PDU will distribute AC power from the Primary input source. Connect the Secondary input plug **B** to an alternative source of grounded 120V/230V AC power, such as a redundant SmartOnline UPS System. The UPS system must not share a circuit with a heavy electrical load (such as an air conditioner or refrigerator). Do not plug the Secondary input into the same power source as the Primary input. The PDU will distribute AC power from the Secondary input only if the Primary input becomes unavailable.

Note: *Immediately after the PDU is connected to live AC power, you may notice a series of soft clicking sounds emitted by electrical relays within the PDU. The relays may also click occasionally during the operation of the PDU. This is normal.*



2.2.7 Selecting Input Voltage Range (optional: Models PDUMH20HVAT & PDUMNH20HVATNET only): This model has two selectable nominal input voltage ranges: 200V-208V (“LO”) and 220V-240V (“HI”). Press the switch next to the display to toggle the nominal voltage setting to the desired “HI” or “LO” range. This setting adjusts the voltage ranges for the primary and secondary inputs. The display will indicate “HI” or “LO” for five seconds.

2.2.8 Connect Equipment to PDU: Do not exceed the load rating of the PDU. The total electrical current used by the PDU will be displayed on the digital meter in amperes. Each outlet includes a green LED that illuminates when the outlet is receiving AC power.



2. Installation *(continued)*

2.3 Networking the PDU

2.3.1 Preparation

Locate MAC Address: The 12-digit MAC address (000667xxxxxx) is printed in two locations: a label attached to the underside of the card and a duplicate label inside the box. Attach the duplicate label to the UPS system or keep it in a secure location for easy reference.

Determine Installation Method: If your network's DHCP server will assign a dynamic IP address to the SNMPWEBCARD automatically, proceed to ***Dynamic IP Address Assignment***. If you will assign a static IP address to the SNMPWEBCARD manually, proceed to ***Static IP Address Assignment***. If you are uncertain which method to use, contact your network administrator for assistance before continuing the installation process.

2.3.2 Dynamic IP Address Assignment

Connect SNMPWEBCARD to Network: Connect a standard Ethernet patch cable to the RJ-45 Ethernet port on the card. *Note: This port does not support PoE (Power over Ethernet) applications.* The card will attempt to obtain an IP address via DHCP. This may take as long as several minutes, depending on your network environment.

Discover IP Address: Contact your network administrator to determine which IP address has been assigned to the card by the DHCP server. The card can be identified on the DHCP server by referring to its MAC address (see Step 1-3). You may wish to request a long-term lease period for the IP address, depending on your application. After you have discovered the IP address, proceed to ***4 -Test and Configure***. *Note: The DHCP address is also displayed during boot-up when connected to a computer through the configuration cable and a terminal emulation program.*

IP Address Display (Model PDUMH20HVATNET): Press and hold the switch to display the IP address of the SNMP card in the PDU.

2.3.3 Static IP Address Assignment/Terminal Menu Configuration Settings

Determine IP Information: Before assigning a static IP address, you'll need to know the IP address, gateway address and subnet mask. If you do not have this information, contact your network administrator for assistance.

Configure Terminal Emulation Program: Open a VT100-compatible terminal emulation program (such as the HyperTerminal program bundled with Microsoft® Windows®) on a computer with an available DB9 serial port. (A notebook computer may be the most convenient choice.) Set the terminal emulation program to use the COM port **A** that corresponds to the DB9 serial port. Specify the parameters **B** required to communicate with the SNMPWEBCARD terminal interface:

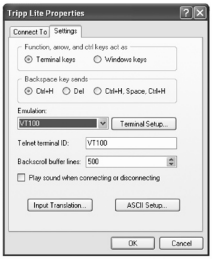
Bits per second:	9600
Data bits:	8
Parity:	None
Stop bits:	1
Flow control:	None

If the terminal emulation program supports multiple emulation modes, you may also need to specify VT100 emulation **C**.

A

B

C

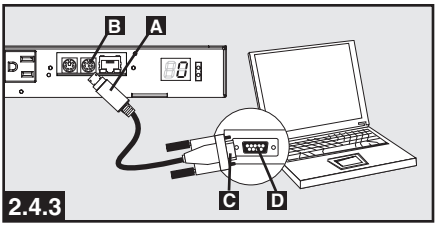


Note: *The following message will appear in the terminal startup menu: IAM:Got AUTO-CONFIGURED IPv6 address E80::4200:FF:FE01:8 on interface eth0:3 IPv6 is not currently supported. Tripp Lite is working on IPv6 for a future release.*

2. Installation *(continued)*

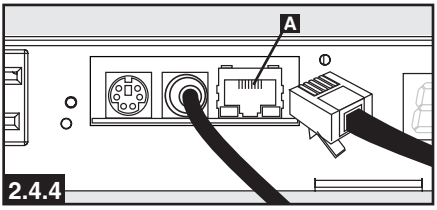
2.3.3 Static IP Address Assignment/Terminal Menu Configuration Settings *(continued)*

Connect SNMPWEBCARD to Computer: Use the mini-DIN to DB9 serial cable (part number 73-1025) included with the card to connect the card to the computer. The circular connector **A** at one end of the cable attaches to the 8-pin mini-DIN serial port **B** on the card. (Align the connector carefully to avoid damaging the pins.) The DB9 connector **C** at the other end of the cable connects to the computer's serial port **D**.



Connect SNMPWEBCARD to Network: Connect a standard Ethernet patch cable to the RJ-45 Ethernet port **A** on the card.

Note: This port does not support PoE (Power over Ethernet) applications.



On PDUMH20HVATNET, connection is on the reverse side.

Configure SNMPWEBCARD in Terminal Mode: After a brief pause, an initialization page should appear in the terminal emulation program. Press any key on the keyboard within 5 seconds to change the card's settings. (If the 5-second period has elapsed, you can reboot the card by removing it and then re-seating it in the accessory slot.)

Follow the sequence of responses below in order to assign an IP address to the card. The default terminal mode password is TrippLite. Sample IP settings are shown - supply your own IP information when you configure your card.

```
This card's hostname [ ]?
This card's domain [ ]?
Obtain IP settings automatically using DHCP for Ethernet interface? [Y]
IP address? [10.2.0.98]
Subnet mask? [255.0.0.0]
Gateway address? [10.0.0.1]
DNS server 1? [10.0.0.5]
DNS server 2? [10.2.0.10]
This cards host name? [cornflakes]
This cards domain? [tlsoftwaredev.local]
```

SNMP Settings

```
Enable SNMP Community 0 [Y]? y
Choose a community privilege level:
  0 - noAccess
  1 - v1UserReadOnly
  2 - v1UserReadWrite
  3 - v2cUserReadOnly
  4 - v2cUserReadWrite
Privilege Level [4]:
Community Name [tripplite]:
Allowable Address Range : [0.0.0.0]?
Allowable Address Mask : [0.0.0.0]?
Enable SNMP Community 1 [N]? n
Enable SNMP Community 2 [N]? n
Enable SNMP Community 3 [N]? n
```

Additional Settings

Additional Ethernet Settings:

```
Enable SNTP? [N]      Enable https? [N]     Port number? [23]
Enable http? [Y]      Port number? [443]    Enable ssh? [Y]
Port number? [80]     Enable telnet? [Y]    Port number? [22]
```

2. Installation *(continued)*

2.3.3 Static IP Address Assignment/Terminal Menu Configuration Settings *(continued)*

Hardware Parameters:

```
Would you like to update the RTC date/time in GMT? [N]
Time Zone (0 is GMT-12, 6 is CST) :
```

Time Zone Offsets Supported

Western Hemisphere		Eastern Hemisphere	
Hour Off-Set	**Location**	**Hour Off-Set**	**Location**
0	Greenwich, England	-1	Mid Europe/Africa
1	SE Greenland	-2	E Europe, E Central Africa
2	Atlantic Ocean	-3	Moscow, Mid-East, E Africa
3	Greenland Time	-4	NW Caspian Sea
4	Atlantic Time	-5	Ural Mountains, Russia
5	Eastern Standard Time	-6	Almaty (Alma ATA), Russia
6	Central Standard Time	-7	W Mongolia
7	Mountain Standard Time	-8	China
8	Pacific Standard Time	-9	Japan
9	Alaska Time	-10	Eastern Russia, Sydney, Australia
10	Hawaii	-11	Kamchatskiy, E Russia
11	Pacific Ocean		
+/-12	International Date Line		

```
Do you wish to configure the advanced settings [y/n]? [Y]
```

This interface must have a unique MAC address.

```
Ethernet MAC Address? [00:06:67:01:00:08]
```

DO NOT MODIFY UNLESS DIRECTED BY YOUR ADMINISTRATOR

```
Do you want to completely erase the file system? [N]
```

DO NOT MODIFY UNLESS DIRECTED BY TRIPP LITE TECHNICAL SUPPORT

```
Default Ethernet setting (0=Auto, 1=10 Half, 2=10 Full, 3=100 Half, 4=100
Full)? [Auto]
```

DO NOT MODIFY UNLESS DIRECTED BY YOUR ADMINISTRATOR

You can also change the root password, real-time clock and other settings. (Tripp Lite recommends against changing the default settings unless you are an advanced user with a specific purpose.) After you have finished entering settings, the card will save changes to memory and reboot (this may take several minutes). After the card reboots, the initialization page should display the new static IP settings.

Remove Serial Cable: Using one hand to hold the card in place, remove the serial cable. Proceed to ***Test and Configure***.

2.4 Test and Configure

2.4.1 Test Network Connection: After an IP address has been assigned to the card, try to access it with a Web browser that supports frames, forms and Java™. Open a Web browser on a computer connected to the LAN and enter the card's IP address. You should be prompted for a password. The user name is admin and the default password is admin. After you enter the user name and password, the PowerAlert Status page will appear in the browser window. For more information about configuration and operation of the managed device, refer to the SNMPWEBCARD User's Guide, included on the CD-ROM bundled with the card.

2.4.2 Default UPS Shutdown Setting: During a loss of utility power, the SNMPWEBCARD is configured to shut down the UPS system 2 minutes after a low battery signal is received from the UPS. This allows the UPS to provide the maximum available runtime to connected equipment. If you want to change the default setting, follow these instructions:

2. Installation *(continued)*

2.4 Test and Configure *(continued)*

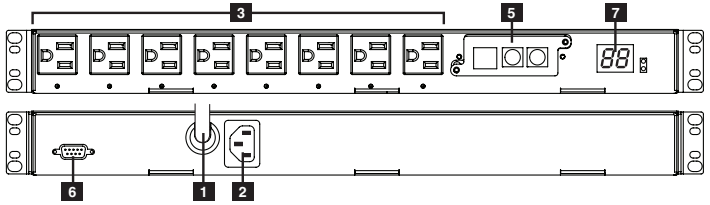
Note for Network Management System Users Only: *Two MIB files - Tripplite.mib and RFC1628.mib - must be loaded on each Network Management Station that will monitor the UPS system via SNMP. The files are provided on the CD-ROM included in the product package.*

The following message will appear in the terminal startup menu:

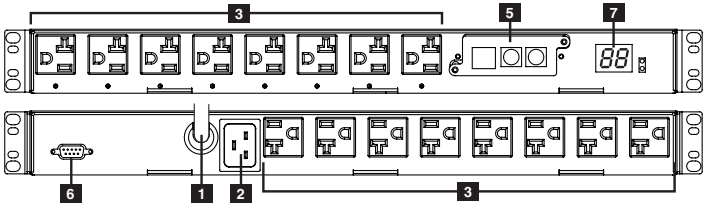
```
IAM:Got AUTO-CONFIGURED IPv6 address FE80::4200:FF:FE01:8 on interface eth0:3
IPv6 is not currently supported. Tripp Lite is working on IPv6 for a
future release.
```

3. Features

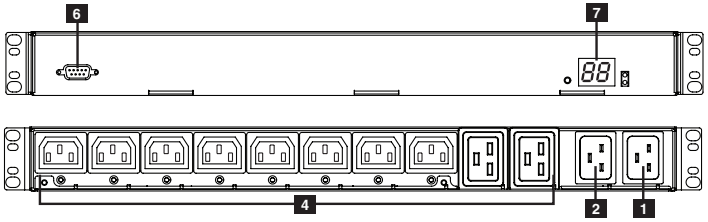
PDUMH15AT, PDUMH15ATNET



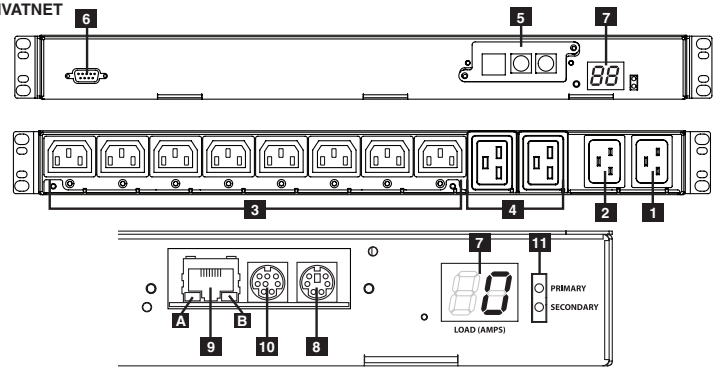
PDUMH20AT, PDUMH20ATNET



PDUMH20HVAT



PDUMH20HVATNET



3. Features *(continued)*

1 **Primary Input**
Model PDUMH15AT/15ATNET: The cord is permanently attached to the PDU and has a NEMA 5-15P plug.
Model PDUMH20AT/20ATNET: The cord is permanently attached to the PDU and has a NEMA L5-20P plug.
Model PDUMH20HVATNET: The C19-C20 cord is detachable.

2 **Secondary Input Inlet (detachable on all models)**
Model PDUMH15AT/15ATNET: The IEC-320-C14 inlet connects to the detachable Secondary AC Input Power Cord.
Model PDUMH20AT/20ATNET/20HVAT/20HVATNET: The IEC-320-C20 inlet connects to the detachable Secondary AC Input Power Cord.

3 **Switched Outlets:** During normal operation, the outlets distribute AC power to connected equipment. On Models PDUMH15ATNET, PDUMH20ATNET and PDUMH20HVATNET, the NEMA 5-15R, NEMA 5-15/20R and IEC-320-C13 outlets may be switched On and Off via software control. When an outlet is live, the associated LED illuminates.

4 **Unswitched Outlets (PDUMH20HVAT & PDUMH20HVATNET only):** These outlets receive power from either input source, but are not individually switchable.

5 **Card Location (Network Jack on NET Models only / Protective Plate on PDUMH15 and PDUMH20):** An optional SNMP card (SNMPWEBCARD) may be purchased and installed in the slot, allowing the PDU to be configured, controlled and monitored remotely. Contact Tripp Lite Customer Support at 773.869.1234 for more information.

6 **Factory Port:** The port is reserved for configuration by factory authorized personnel only. Do not connect anything to the port.

7 **Digital Load Meter (Ammeter):** The total electrical current used by the connected equipment is displayed on the digital meter in amperes.

Input Voltage Range Select Switch (Model PDUMH20HVATNET): The switch to the lower left of the display may be used to toggle between "HI" or "LO" voltage ranges. The display will indicate "HI" or "LO" for five seconds. Press the switch once to display ranges, press again within five seconds to change setting. Setting can also be changed via PowerAlert. (PDUMH20HVATNET only.)

IP Address Display (Models PDUMH20HVAT & PDUMH20HVATNET): Press and hold the switch to display the IP address of the SNMP card in the PDU.

8 **Network Interface (PDUMH15ATNET, PDUMH20ATNET, PDUMH20HVATNET only):** Use this RJ-45 jack to connect the PDU to the network with a standard Ethernet patch cable. The Link LED **A** and Status LED **B** indicate several operating conditions, as shown in the table below. *This port is not compatible with PoE (Power Over Ethernet) applications.*

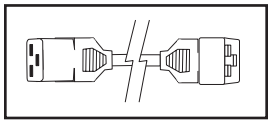
Network Operating Conditions			
A Link LED Color		**B Status LED Color**	
Off	No Network Connection	Off	Card Not Initialized
Flashing Amber	100 Mbps Network Connection	Steady Green	Card Initialized and Operational
Flashing Green	10 Mbps Network Connection	Flashing Amber	Error - Card Not Initialized

9 **ENVIROSENSE Port:** Use this port to connect a Tripp Lite ENVIROSENSE environmental sensor to provide remote temperature/humidity monitoring and a dry contact interface to control and monitor alarm, security and telecom devices. Contact Tripp Lite Customer Support at 773.869.1234 for ordering information. Note: Do not connect a keyboard or mouse to this port.

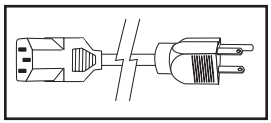
10 **Configuration Port:** Use this port to provide a direct terminal connection to a computer with a terminal emulation program. A serial cable (part number 73-1025) is included with the PDU. If you need to order a replacement cable, contact Tripp Lite Customer Support at 773.869.1234.

11 **Input Source Indicator:** When the PDU is connected to a live AC power source, the Primary or Secondary input LED illuminates to indicate which source is supplying power to the PDU outlets.

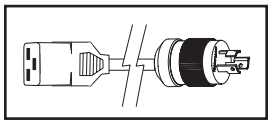
3. Features *(continued)*



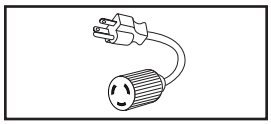
Primary and Secondary AC Input Power Cord (Models PDUMH20HVAT & PDUMH20HVATNET): Two C19-C20 cables are included: one for Primary Input, and one for Secondary Input.



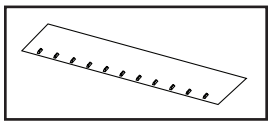
Secondary AC Input Power Cord (Model PDUMH15AT/15ATNET): The detachable cord has an IEC-320-C13 connector and a NEMA 5-15P plug.



Secondary AC Input Power Cord (Model PDUMH20AT/20ATNET): The detachable cord has an IEC-320-C19 connector and a NEMA L5-20P plug.



Input Plug Adapters (Model PDUMH20AT/20ATNET): The adapters convert NEMA L5-20P input plugs to NEMA 5-20P input plugs.



Cable Retention Tray (Models PDUMH20HVAT & PDUMH20HVATNET): Tie the Primary and Secondary Input cords to the Cable Retention Tray. Once you've secured the two cords together and ensured that the Secondary cord has a comfortable amount of slack, insert the Secondary cord outlet into the IEC power inlet.

4. Configuration and Operation

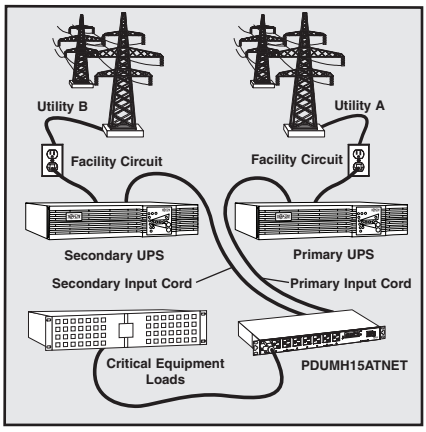
4.1 Automatic Transfer Switch

When the Primary and Secondary inputs are both connected to Tripp Lite UPS Systems, the PDU operates as an Automatic Transfer Switch, providing redundant input power for high availability applications. Under normal operating conditions, the PDU will distribute power from the Primary input source, switching to the Secondary input source under certain conditions. The PDU will switch to the Primary source whenever it is *Good* according to the PDU input voltage definitions (see below).

4.1.1 Preferred Configuration

The Automatic Transfer Switch function provides increased availability when the Primary and Secondary inputs of the PDU are connected to separate Tripp Lite UPS Systems that are connected to separate utility power sources. For maximum availability, Tripp Lite recommends using matching SmartOnline UPS Systems with pure sine wave output for the Primary and Secondary input power sources. The automatic transfer switch function will be compromised if the primary and secondary inputs are connected to the same utility power source.

Warning: DO NOT connect the primary input to a line-interactive UPS, due to transfer time issues, or to any source that does not supply a pure sine wave. Such sources may be used to power the secondary input.



4. Configuration and Operation *(continued)*

4.1.2 Automatic Transfer Switch Source Selection

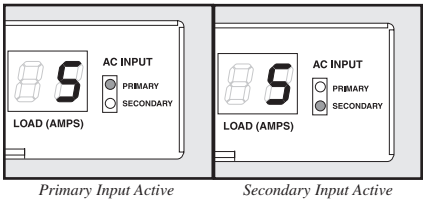
The PDU will power up if one of the input sources is greater than the minimum startup voltage. In normal operation (after power-up), if the presently selected source (primary or secondary) degrades to a lesser condition, the unit should switch to the alternate source, if that source is of better quality. The unit prefers the primary source, and will always switch to it in the event that both sources are of the same (fair or good) quality. If the present source is becoming bad and the alternate source is at least fair, the unit will switch to the alternate source.

	Nominal Voltage of PDU		
	Low-Voltage Models	High-Voltage Models	
	120V	200-208V	220-240V
Minimum Startup Voltage	85V	163V	163V
Good Voltage Range	99-139V	172-241V	190-266V
Fair Voltage Range	75-98V	144-171V	144-189V
Bad Voltage Range	0-74V	0-143V	0-143V

4.1.3 Quick Test

After installing the PDU and connecting equipment, you may test the Automatic Transfer Switch function by temporarily shutting down the UPS system connected to the Primary AC input. When the Primary input UPS is no longer supplying AC power, the PDU will switch from the Primary input to the Secondary input, and the Secondary input LED will illuminate. When the Primary input UPS has been restarted and resumes supplying AC power, the PDU will switch back to the Primary input.

Note: *The primary and secondary inputs must be connected to separate sources of utility power. The automatic transfer switch function will be compromised if the primary and secondary inputs are connected to the same utility power source. Do not perform a test with equipment that must remain in productive operation. Any test procedure must prepare for the contingency that the equipment may lose power. Do not test the PDU by detaching power cords which are connected to live power sources, as this eliminates the connection to ground and places your equipment at risk.*



Primary Input Active *Secondary Input Active*

4.2 Remote Monitoring and Control

The PDU provides remote monitoring, outlet control and more via Web browser, telnet and SNMP-based Network Management Systems. For more information about configuration and operation of the PDU via the PowerAlert Web browser interface, refer to the SNMPWEBCARD User's Guide, included on the CD-ROM bundled with the PDU.

Load "Ramping" on Startup: All models arrive from the factory programmed so that, when first powered up, their outlets turn on in sequential order at intervals of approximately 250 ms. This prevents circuit overloads by staggering the startup of multiple devices. Models PDUMH15ATNET, PDUMH20ATNET and PDUMH20HVATNET support user-programmable startup of outlets, in any order or time interval. This ensures that network items are turned on in the proper sequence, with the appropriate delay, so that network items are reliably discovered on startup.

Programmable Load "Shedding" During a Power Failure: In the event that the primary power source fails and the PDU is relying on the secondary power source, load shedding allows you to program the shutoff of specific outlets at timed intervals. This enables you to turn off less critical loads (monitors, for example) to maximize the UPS runtime for the most critical items.

5. Technical Support

www.tripplite.com/support

E-mail: techsupport@tripplite.com

6. Warranty and Warranty Registration

LIMITED WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship for a period of 2 years (except internal UPS system batteries outside USA and Canada, 1 year) from the date of initial purchase. If the product should prove defective in material or workmanship within that period, Seller will repair or replace the product, in its sole discretion. Service under this Warranty can only be obtained by your delivering or shipping the product (with all shipping or delivery charges prepaid) to: Tripp Lite, 1111 W. 35th Street, Chicago, IL 60609 USA. Seller will pay return shipping charges. Visit www.tripplite.com/support before sending any equipment back for repair.

THIS WARRANTY DOES NOT APPLY TO NORMAL WEAR OR TO DAMAGE RESULTING FROM ACCIDENT, MISUSE, ABUSE OR NEGLECT. SELLER MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY EXPRESSLY SET FORTH HEREIN. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ALL IMPLIED WARRANTIES, INCLUDING ALL WARRANTIES OF MERCHANTABILITY OR FITNESS, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE; AND THIS WARRANTY EXPRESSLY EXCLUDES ALL INCIDENTAL AND CONSEQUENTIAL DAMAGES. (Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from jurisdiction to jurisdiction).

WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application.

WARRANTY REGISTRATION

Visit www.tripplite.com/warranty today to register the warranty for your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!*

* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

FCC Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. The user must use shielded cables and connectors with this product. Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Regulatory Compliance Identification Numbers

For the purpose of regulatory compliance certifications and identification, your Tripp Lite product has been assigned a unique series number. The series number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to the series number. The series number should not be confused with the marking name or model number of the product.

The policy of Tripp Lite is one of continuous improvement. Specifications are subject to change without notice.

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