

YOUR ULTIMATE ALLY IN POWER

POWER DISTRIBUTION UNITS

1U / 2U / 0U SWITCHED / METERED / MONITORED SERIES

USER MANUAL

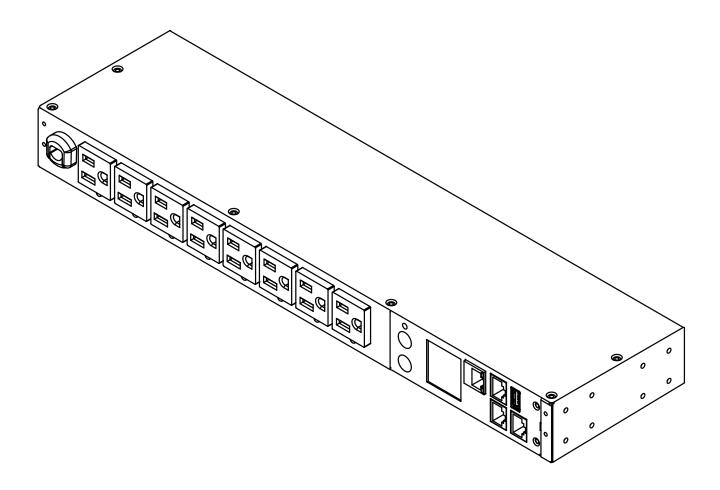


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MODEL LIST

Switched Metered by Outlet Series

<u>1U</u>	2U	ου	
PDU81001	PDU81003	PDU81101	
PDU81002	PDU81007	PDU81102	
PDU81004	PDU81008	PDU81104	
PDU81005	PDU81009	PDU81105	
PDU81006			

Metered by Outlet Series

1U	2 U	
PDU71001	PDU71003	
PDU71002	PDU71007	
PDU71004	PDU71008	
PDU71005	PDU71009	
PDU71006		

Switched Series

1U	2 U	OU
PDU41001	PDU41003	PDU41101
PDU41002	PDU41007	PDU41102
PDU41004	PDU41008	PDU41104
PDU41005	PDU41009	PDU41105
PDU41006		PDU41116

Monitored Series

<u>1U</u>	2U	OU
PDU31001	PDU31003	PDU31101
PDU31002	PDU31007	PDU31102
PDU31004	PDU31008	PDU31106
PDU31005	PDU31009	PDU31114
PDU31006		PDU31116

SAFETY PRECAUTIONS

Read the following before installing or operating the Power Distribution Units (PDU):

- Use only the supplied hardware to attach the mounting brackets.
- The PDU must be plugged into a three-wire, grounded outlet on a circuit that is protected by a fuse or circuit breaker.

For 15A PDU series, please use a 15A circuit protector. For 20A PDU series, please use a 20A circuit protector. For 30A PDU series, please use a 30A circuit protector. Connection to any other type of power outlet may result in a shock hazard.

- Do not use extension cords or adapters with this PDU.
- Never install a PDU or associated wiring or equipment during a lightning storm.
- Ensure that the power cord, plug, and socket are in good condition.

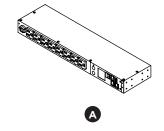


To prevent the risk of fire or electrocution, this PDU should be installed in a temperature and humidity controlled indoor area free of conductive contaminants. Do not install this PDU where excessive moisture or heat is present.

INTRODUCTION

Package Contents, 1U Models

- A PDU
- B Mounting Brackets: 2 short and 2 long
- c 12 Bracket Mounting Screws (Flat Head M4 x 8)
- **D** 6 (M5 x 12) Rack Mounting Screws and Washers
- **E** Cord Retention Tray



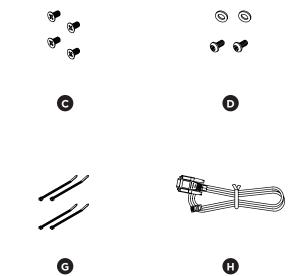








- **F** 6 (M3 x 6) Cord Retention Tray Mounting Screws
- G Cable Ties: Qty 12 (NEMA outlet PDU) Qty 27 (IEC outlet PDU)
- H RJ45 / DB9 Serial Port Connection Cable
- User's Manual, Warranty Registration Card, Software Download Card (not pictured)

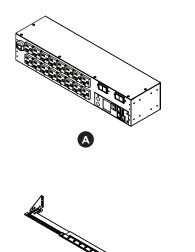


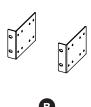
Package Contents, 2U Models

- A PDU
- **B** Mounting Brackets x 2
- c 12 Bracket Mounting Screws (Flat Head M4 x 8)
- 6 (M5 x 12) Rack Mounting Screws and Washers
- © Cord Retention Tray x 2



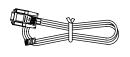
- F 12 (M3 x 6) Cord Retention Tray Mounting Screws
- G Cable Ties: Qty 24 (NEMA outlet PDU) Qty 30 (10 IEC outlet PDU) Qty 48 (16 IEC outlet PDU)
- H RJ45 / DB9 Serial Port Connection Cable
- User's Manual, Warranty Registration Card, Software Download Card (not pictured)









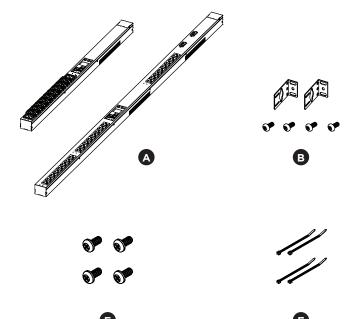




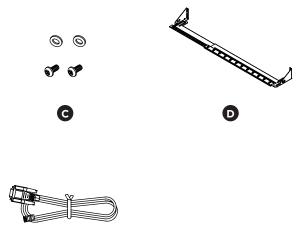
INTRODUCTION

Package Contents, OU Models

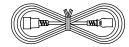
- A PDU
- B Mounting Brackets with 6 (M4 x 5) Screws
- **C** 6 (M5 x 12) Rack Mounting Screws and Washers
- Cord Retention Tray



- **E** 6 (M3 x 6) Cord Retention Tray Mounting Screws
- Cable Ties: Qty 30 (20-outlet PDU)
 Qty 36 (24-outlet PDU)
 Qty 63 (42-outlet PDU)
- G RJ45 / DB9 Serial Port Connection Cable
- (H) User's Manual, Warranty Registration Card, Software Download Card (not pictured)



The items below are only included with certain models



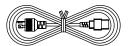
Power Cord 10-ft IEC 320 C13/14 PDU81004 / PDU71004 / PDU31004)



Power Cord 10-ft IEC 320 C19/20 PDU81005 / PDU71005 / PDU41005 / PDU31005



Adapter NEMA L5-20R to 5-20P PDU81002 / PDU81101 / PDU71002/ PDU41002 / PDU41101 / PDU31002 / PDU31101



Power Cord 10-ft IEC 320 C19 to NEMA L6-20P PDU81006 / PDU81104 / PDU71006 / PDU41006 / PDU41104 / PDU31006 / PDU31114



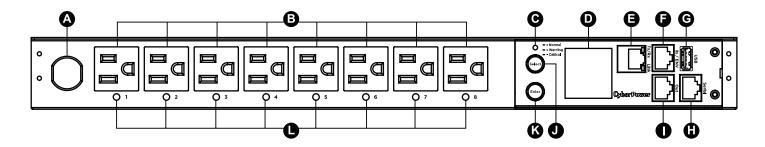
Before using, please check to ensure the package contains all the items shown above.

If there are missing parts, please contact your local CyberPower technical support team for assistance.

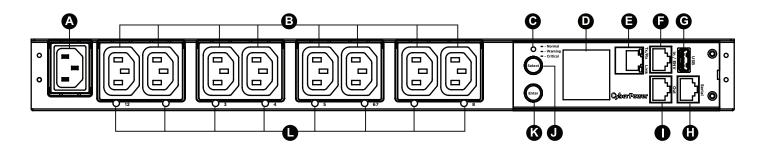
PRODUCT FEATURES - 1U 15A MODELS

Front Panel Description

NEMA Type



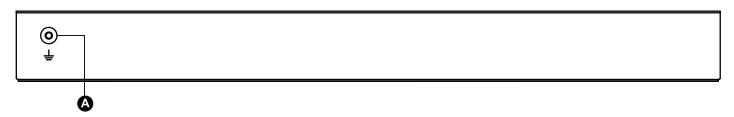
IEC Type



- AC Inlet/ AC Power Cord Used to connect PDU to utility power or UPS.
- **B** AC Output Receptacles Provides power for connected equipment.
- **C** Status Indicator Indicates the condition of the PDU (eq. load or environment status).
- Multifunction LCD Readout Displays various PDU information such as power and load condition.
- **E Ethernet Port -** Used to connect PDU to the network.
- **ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) –** Used for ENVIROSENSOR or chaining to previous PDU.

- **G USB Port -** Used to upgrade the firmware via a flash drive.
- **H** Serial Port (RJ45 modular port) Used to connect to a PC and control the PDU locally via SSH/Telnet.
- Daisy Chain (Out) Port Used for chaining to next PDU.
- **Select Button -** Used to control the LCD screen and toggle through the available information options.
- **Enter Button -** Used to choose selected items, enter to next level menu or return to previous menu.
- Outlet Indicator (switched series only) Indicates if the outlet is providing power to connected equipment.

Rear Panel Description



A Ground Stud - Used to ground the PDU

TECHNICAL SPECIFICATIONS - 1U 15 A MODELS

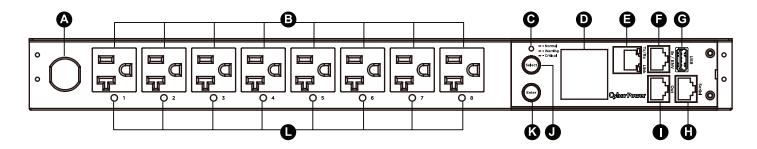
Model Name	PDU81001 PDU71001 PDU41001 PDU31001	PDU81004 PDU71004 PDU41004 PDU31004				
Input	Input					
Nominal Voltage	100 - 120 V	100 - 240 V				
Frequency	50 /	60Hz				
Maximum Input Current	12A UL (Derated)	10 A CE / 12A UL (Derated)				
Plug Type	NEMA 5-15P	IEC 320 C14				
Power Cord Type	SR (14 AWG)	Socket				
Power Cord Length	12 ft / 3.65 m	10 ft / 3.05 m				
Output						
Nominal Voltage	100 - 120 V	100 - 240 V				
Maximum Output Current	12A UL (Derated)	10 A CE / 12A UL (Derated)				
Outlet Type	NEMA 5-15R	IEC 320 C13				
Outlet Number	8	3				
Management and Communications						
Multifunction LCD Readout	Voltage, Frequency, Load, Current, HW/FW Version, Network Information					
Software	PowerPanel® Business Edition					
Networking	Yes					
Serial Port	RJ	45				
Sensor Capable	Opti	ional				
Physical						
Dimensions (Height x Width x Depth)	1.75 x 17.05 x 4.41 in.	/ 44 x 433 x 112 mm				
Environmental						
Humidity	0 to 95% Non-condensing					
Altitude	11,480 ft / 3,500 m					
Temperature	32°F to 140° F / 0° C to 60° C					
Safety Approvals						
Certifications	UL 60950-1 UL 62368-1 FCC Class A	UL 60950-1 UL 62368-1 CE FCC Class A				

All specifications are subject to change without notice.

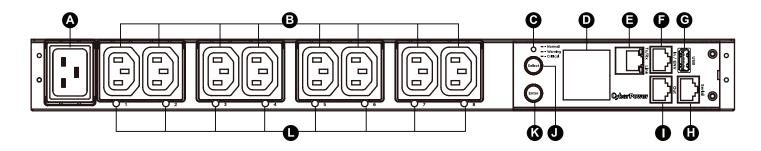
PRODUCT FEATURES - 1U 20A MODELS

Front Panel Description

NEMA Type



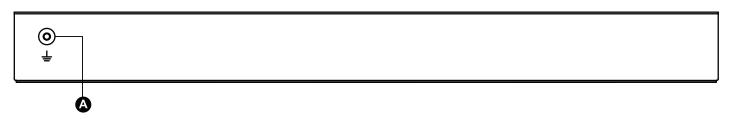
IEC Type



- AC Inlet/ AC Power Cord Used to connect PDU to utility power or UPS.
- **B** AC Output Receptacles Provides power for connected equipment.
- **C** Status Indicator Indicates the condition of the PDU (eq. load or environment status).
- **Multifunction LCD Readout -** Displays various PDU information such as power and load condition.
- **E Ethernet Port -** Used to connect PDU to the network.
- **ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) –** Used for ENVIROSENSOR or chaining to previous PDU.

- **G USB Port** Used to upgrade the firmware via a flash drive.
- **H** Serial Port (RJ45 modular port) Used to connect to a PC and control the PDU locally via SSH/Telnet.
- Daisy Chain (Out) Port Used for chaining to next PDU.
- **Select Button -** Used to control the LCD screen and toggle through the available information options.
- **Enter Button -** Used to choose selected items, enter to next level menu or return to previous menu.
- Outlet Indicator (switched series only) Indicates if the outlet is providing power to connected equipment.

Rear Panel Description



A Ground Stud - Used to ground the PDU

TECHNICAL SPECIFICATIONS - 1U 20A MODELS

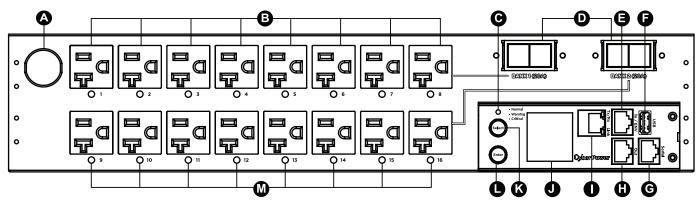
Model Name	PDU81002 PDU71002 PDU41002 PDU31002	PDU81005 PDU71005 PDU41005 PDU31005	PDU81006 PDU71006 PDU41006 PDU31006		
Input	Input				
Nominal Voltage	100 - 120 V	100 - 240 V	200 - 240 V		
Frequency		50 / 60Hz			
Maximum Input Current		16A CE, UL (Derated)			
Plug Type	NEMA L5-20P (Adapter)	IEC 320 C20	NEMA L6-20P		
Power Cord Type	SR (12 AWG)	Soc	eket		
Power Cord Length	12 ft / 3.65 m	10 ft / 3.05 m	12 ft / 3.65 m		
Output					
Nominal Voltage	100 - 120 V	100 - 240 V	200 - 240 V		
Maximum Output Current		16A CE, UL (Derated)			
Outlet Type	NEMA 5-20R	IEC	C13		
Outlet Number		8			
Management and Communica	munications				
Multifunction LCD Readout	Voltage, Frequency, Load, Current, HW/FW Version, Network Information				
Software	PowerPanel® Business Edition				
Networking	Yes				
Serial Port	RJ45				
Sensor Capable	Optional				
Physical					
Dimensions (H x W x D)	1.75 in. x 17.05 in. x 4.41 in / 44 mm x 433 mm x 112 mm				
Environmental					
Humidity	0 to 95% Non-condensing				
Altitude	11,480 ft / 3,500 m				
Temperature	32°F to 131° F / 0° C to 55° C				
Safety Approvals					
Certifications	UL 60950-1 UL 62368-1 FCC Class A	UL 60950-1 UL 62368-1 CE FCC Class A	UL 60950-1 UL 62368-1 FCC Class A		

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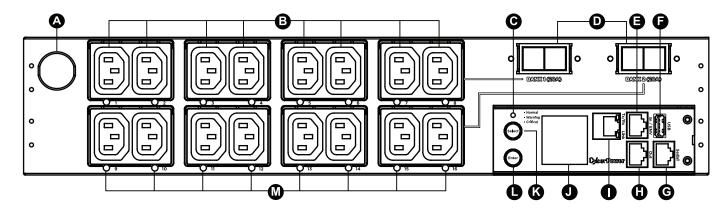
PRODUCT FEATURES - 2U MODELS

Front Panel Description

NEMA Type



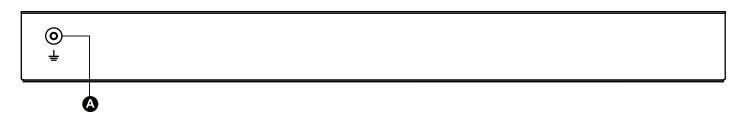
IEC Type



- A AC Inlet/ AC Power Cord Used to connect PDU to utility power or UPS.
- **B** AC Output Receptacles Provides power for connected equipment.
- **C** Status Indicator Indicates the condition of the PDU (eg. load or environment status).
- **D** Circuit Breaker Provides overload protection.
- **E** ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) Used for ENVIROSENSOR or chaining to previous PDU.
- **F USB Port -** Used to upgrade the firmware via a flash drive.

- **G** Serial Port (RJ45 modular port) Used to connect to a PC and control the PDU locally via SSH/Telnet.
- H Daisy Chain (Out) Port Used for chaining to next PDU.
- **Ethernet Port -** Used to connect PDU to the network.
- **Multifunction LCD Readout -** Displays various PDU information such as power and load condition.
- **Select Button -** Used to the LCD screen and toggle through the available information options.
- **Enter Button -** Used to choose selected items, enter to next level menu or return to previous menu.
- Outlet Indicator (switched series only) Indicates if the outlet is providing power to connected equipment.

Rear Panel Description



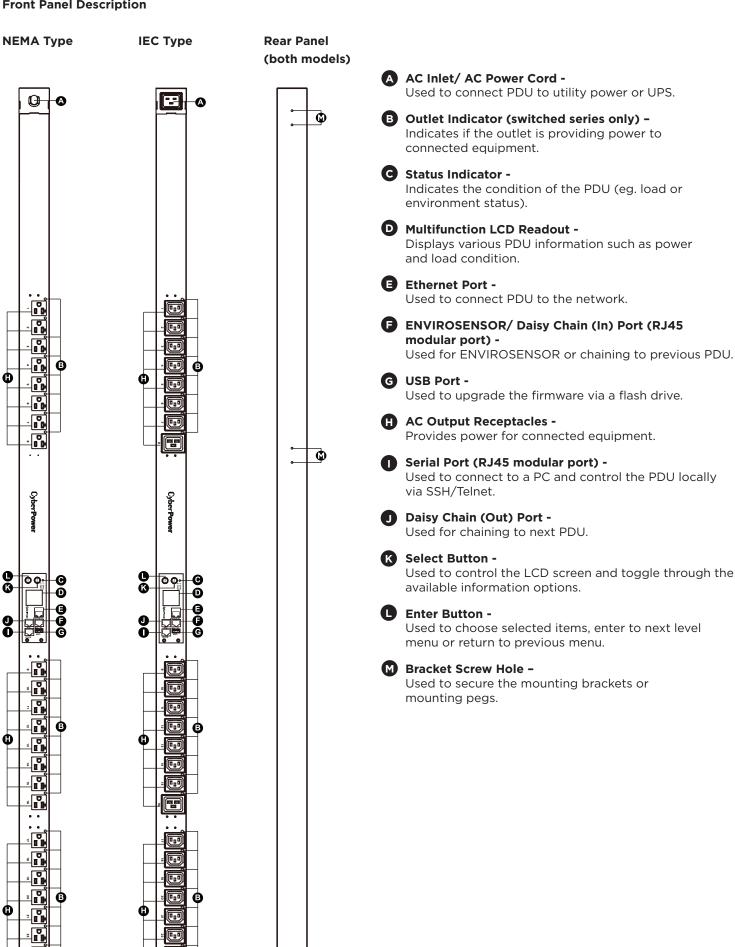
A Ground Stud - Used to ground the PDU

TECHNICAL SPECIFICATIONS - 2U MODELS

PDU81003 PDU71003 PDU41003 PDU31003	PDU81007 PDU71007 PDU41007 PDU31007	PDU81008 PDU71008 PDU41008 PDU31008	PDU81009 PDU71009 PDU41009 PDU31009
100 - 120 V		200 - 240 V	
	50 /	60Hz	
	24A UL ((Derated)	
NEMA L5-30P		NEMA L6-30P	
	SR (10	AWG)	
	12 ft /	3.65 m	
100 - 120 V		200 - 240 V	
	24A UL (Derated	l) / 20A Per Bank	
	:	2	
NEMA 5-20R	IEC C13	12 IEC C13 / 4 IEC C19	IEC C19
Yes			
ications			
Voltage, Frequency, Load, Current, HW/FW Version, Network Information			
PowerPanel® Business Edition			
Yes			
RJ45			
Optional			
Physical			
3.5 x 17.05 x 4.41 in. / 88 x 433 x 112 mm			
Environmental			
0 to 95% Non-condensing			
11,480 ft / 3,500 m			
32°F to 140° F / 0° C to 60° C			
ety Approvals			
UL 60950-1 / FCC Class A			
	PDU71003 PDU41003 PDU31003 100 - 120 V NEMA L5-30P 100 - 120 V NEMA 5-20R	PDU71003 PDU41003 PDU41007 PDU31007 PDU31007 PDU31007 PDU31007 PDU31007 PDU31007 100 - 120 V SR (10 12 ft / 100 - 120 V 24A UL (Derated NEMA 5-20R IEC C13 Y ications Voltage, Frequency, Load, Current, H PowerPanel® B Y R. Opt 3.5 x 17.05 x 4.41 in. 0 to 95% Note 11,480 ft , 32°F to 140° F	PDU71003 PDU71007 PDU41008 PDU41008 PDU41008 PDU41008 PDU31008 100 - 120 V 200 - 240 V 50 / 60Hz 24A UL (Derated) NEMA L5-30P NEMA L6-30P SR (10 AWG) 12 ft / 3.65 m 100 - 120 V 200 - 240 V 24A UL (Derated) / 20A Per Bank 2 NEMA 5-20R IEC C13 12 IEC C13 / 4 IEC C19 Yes ications Voltage, Frequency, Load, Current, HW/FW Version, Network PowerPanel® Business Edition Yes RJ45 Optional 3.5 x 17.05 x 4.41 in. / 88 x 433 x 112 mm 0 to 95% Non-condensing 11,480 ft / 3,500 m 32°F to 140° F / 0° C to 60° C

All specifications are subject to change without notice.

Front Panel Description



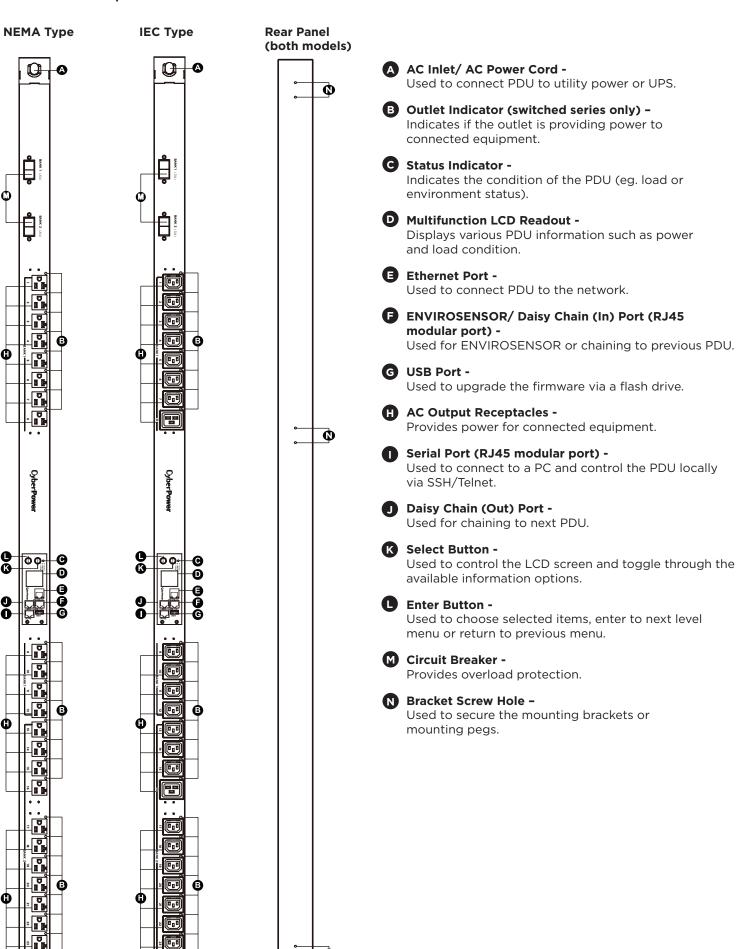
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TECHNICAL SPECIFICATIONS - OU 16/20A MODELS

Model Name	PDU81116 PDU41116	PDU81101 PDU41101	PDU81104		PDU31114	
Ploder Name	PDU31116	PDU31101	PDU41104		F 5031114	
Input						
Nominal Voltage	100	- 120 V	200	- 240 V		
Frequency		50 /	[′] 60Hz			
Maximum Input Current	12A UL (Derated)	16A UL ([Derated)	16A	UL (Derated)	
Plug Type	NEMA 5-15P	NEMA (L) 5-20P (Adapter)	NEMA L6-20P	N	EMA L6-20P	
Power Cord Type	SR (14 AWG)	SR (12 AWG)	Sc	ocket		
Power Cord Length		10 ft /	/ 3.05 m			
Output						
Nominal Voltage	100	- 120 V	200	- 240 V		
Maximum Input Current	12A UL (Derated)	16A UL (I	Derated)	16A	UL (Derated)	
Outlet Type	NEMA 5-15R	NEMA 5-20R	21 IEC C13 / 3 IEC C19		18 IEC C13 2 IEC C19	
Outlet Number	16	24	21 + 3		18 + 2	
Gutier Humber	20	24 21+3			10 12	
Management and Comm	nunications					
Multifunction LCD Readout	Voltage, Fi	requency, Load, Current,	HW/FW Version, Netwo	rk Inforn	nation	
Software		PowerPanel® I	Business Edition			
Networking		Yes				
Serial Port		R	J45			
Sensor Capable		Ор	tional			
Physical						
Dimensions (Height x Width x Depth)	53.1 x 2.2 x 1.9 in. 1350 x 56 x 48mm				35.5 x 2.2 x 1.9 in. 902 x 56 x 48mm	
Environmental						
Humidity	0 to 95% Non-condensing					
Altitude	11,480 ft / 3,500 m					
Temperature	32°F to 140° F / 0° C to 60° C		32°F t	o 131° F / 0° C to 55° C		
Safety Approvals						
Certifications	UL 62368-1 FCC Class A			UL 62368-1 FCC Class A		

All specifications are subject to change without notice.

Front Panel Description



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TECHNICAL SPECIFICATIONS - OU 30/32A MODELS

Model Name	PDU81102 PDU41102 PDU31102	PDU81105 PDU41105	PDU31106		
Input					
Nominal Voltage	100 - 120 V	200	- 240 V		
Frequency		50 / 60Hz			
Maximum Input Current		24A UL (Derated)			
Plug Type	NEMA L5-30P	NEMA	A L6-30P		
Power Cord Type		SR (10 AWG)			
Power Cord Length		10 ft / 3.05 m			
Output					
Nominal Voltage	100 - 120 V	200	- 240 V		
Maximum Output Current		24A UL (Derated)			
Maximum Output Current		20A (Per Bank)			
Outlet Type	NEMA 5-20R	21 IEC C13 3 IEC C19	36 IEC C13 / 6 IEC C19		
Number of Outlets	24	21 + 3	36 + 6		
Circuit Breaker	Yes				
Management and Communications	Management and Communications				
Multifunction LCD Readout	Voltage, Frequency, L	oad, Current, HW/FW Versi	on, Network Information		
Software		PowerPanel® Business Editi	on		
Networking		Yes			
Serial Port		RJ45			
Sensor Capable		Optional			
Physical					
Dimensions (Height x Width x Depth)	65.5	65.5 x 2.2 x 1.9 in. / 1,665 x 56 x 48 mm			
Environmental					
Humidity		0 to 95% Non-condensing			
Altitude		11,480 ft / 3,500 m			
Temperature	32°F to 140° F / 0° C to 60° C				
Safety Approvals					
Certifications	UL 62368-1 / FCC Class A				

 $\ensuremath{\mathsf{AII}}$ specifications are subject to change without notice.

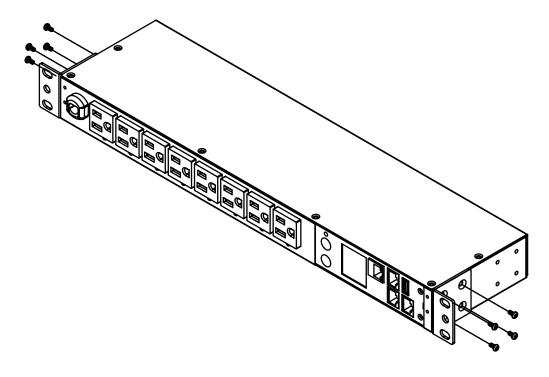
Horizontal Installation - 1U Models



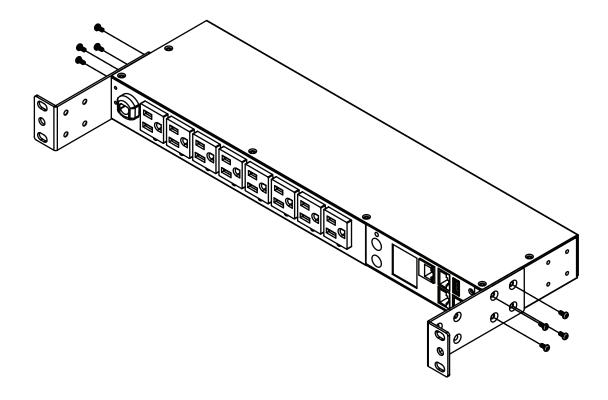
CAUTION! Please use only the provided screws through the entire installation process.

Step 1. Mounting Bracket Installation

Use the provided Mounting Bracket Screws (8) to attach the SHORT Mounting Brackets (2) to the PDU.



If you plan on attaching the Cord Retention Tray to the PDU, you will need to use the LONG Mounting Brackets (2).

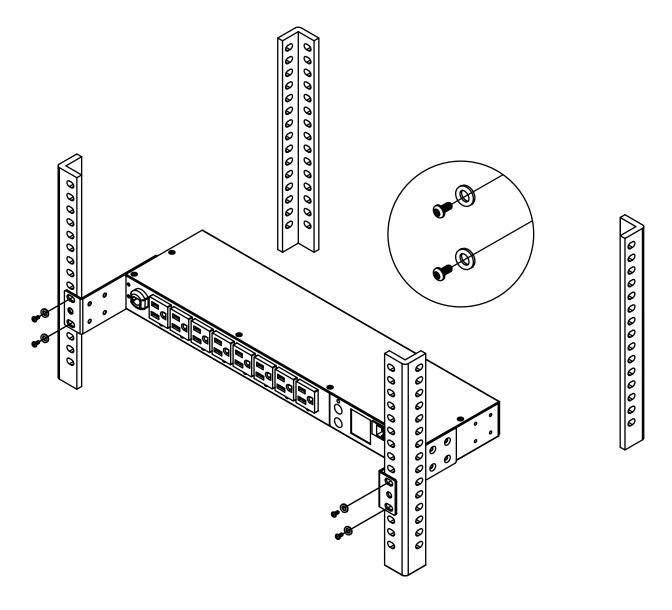


Horizontal Installation - 1U Models

Step 2. PDU Mounting

Use the supplied Washers (4) and Screws (4) to secure the PDU to your existing rack system.

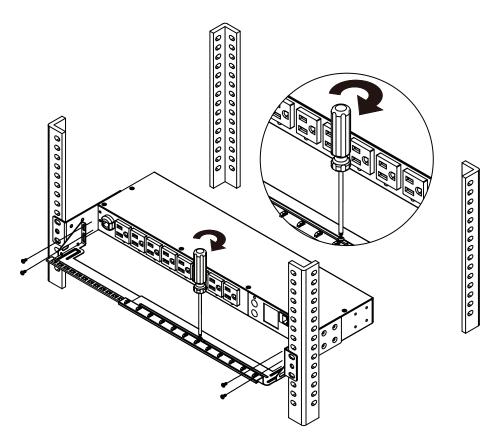
Note: You may also use the screw sets provided by the rack to secure the PDU.



Horizontal Installation - 1U Models

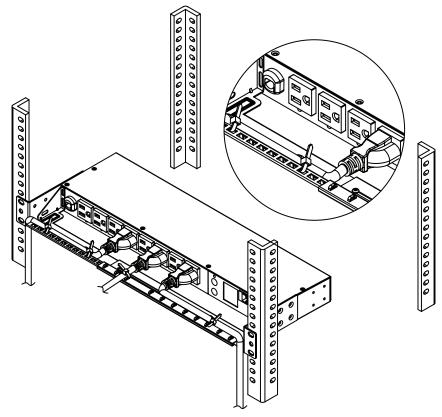
Step 3. Cord Retention Tray Installation (optional)

Adjust the length of the Cord Retention Tray till the screw hole on the Tray and PDU are aligned. Attach the Cord Retention Tray to the PDU with the 4 supplied Cord Retention Tray Mounting Screws. Tighten the Cord Retention Tray with the screw on it.



Use the provided Cable Ties to fasten each cord to the Cord Retention Tray.

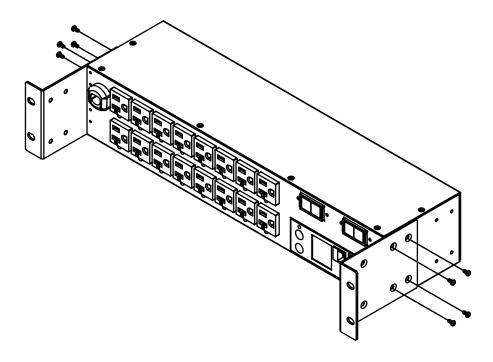
Note: If the PDUs are intended to install in a high temperature environment, please use the Power Cords that could sustain high temperature operation.



Horizontal Installation - 2U Models

Step 1. Mounting Bracket Installation

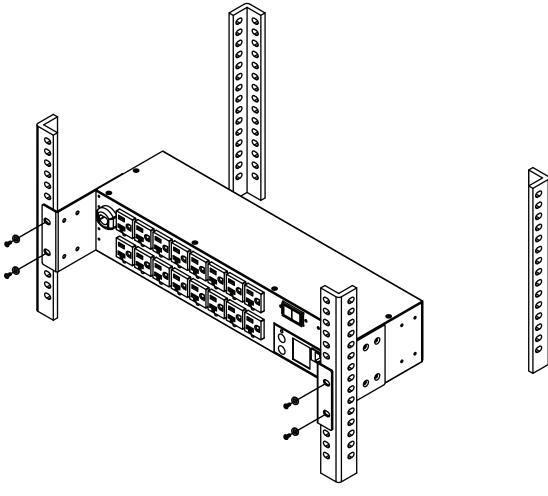
Use the provided Mounting Bracket Screws (8) to attach the Mounting Brackets (2) to the PDU.



Step 2. PDU Mounting

Use the supplied Washers (4) and Screws (4) to secure the PDU to your existing rack system.

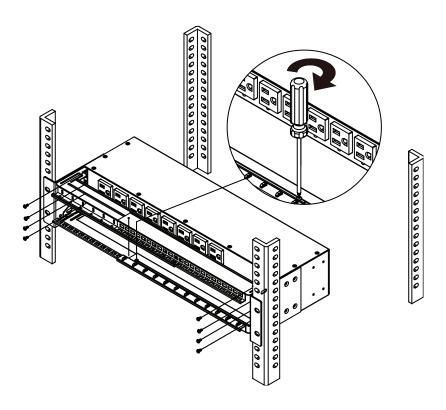
Note: You may also use the screw sets provided by the rack to secure the PDU.



Horizontal Installation - 2U Models

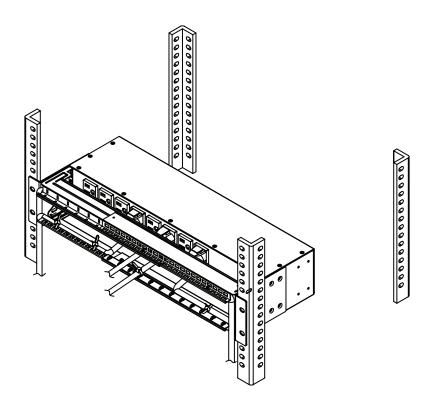
Step 3. Cord Retention Tray Installation (optional)

Adjust the length of the Cord Retention Tray till the screw hole on the Tray and PDU are aligned. Attach the Cord Retention Tray to the PDU with the 8 supplied Cord Retention Tray Mounting Screws. Tighten the Cord Retention Tray with the screw on it.



Use the provided Cable Ties to fasten each cord to the Cord Retention Tray.

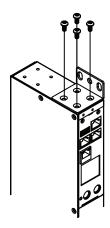
Note: If the PDUs are intended to install in a high temperature environment, please use the Power Cords that could sustain high temperature operation.



Vertical Installation - 1U Models

Step 1. Mounting Bracket Installation

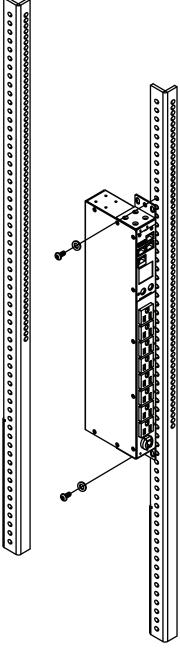
Use the provided Mounting Bracket Screws (8) to attach the SHORT Mounting Brackets (2) to the PDU.



Step 2. PDU Mounting

Use the supplied Washers (2) and Screws (2) to secure the PDU to your existing rack system.

Note: You may also use the screw sets provided by the rack to secure the PDU.

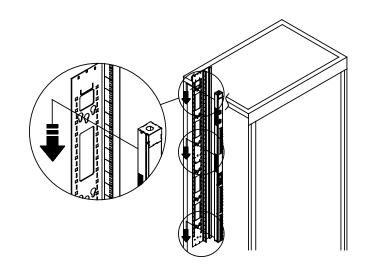


Vertical Installation - OU Models

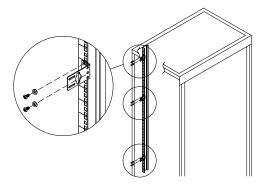
Step 1. PDU Mounting

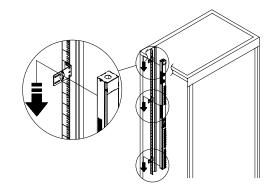
Align the Keyhole Mounts to the Keyhole Slots on the rack. Insert and slide down to lock firmly into the place.

If there is no Keyhole Slot on your rack, please choose from the following methods that is best for your rack deployment to secure the PDU. Use the supplied Washers and Rack Mounting Screws to attach the Mounting Brackets to your existing rack system. Align the Keyhole Mounts to the Keyhole Slots on the Mounting Brackets. Insert and slide down to lock firmly into the place.

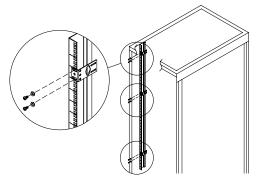


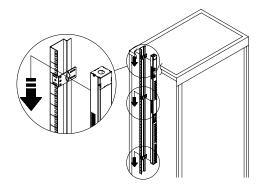
Method 1



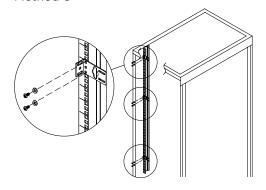


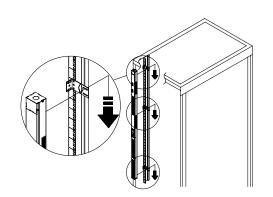
Method 2





Method 3





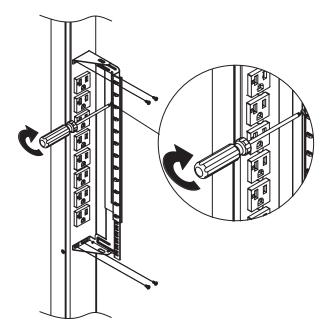
Vertical Installation - OU Models

Step 2. Cord Retention Tray Installation (optional)

Adjust the length of the Cord Retention Tray till the screw hole on the Tray and PDU are aligned.

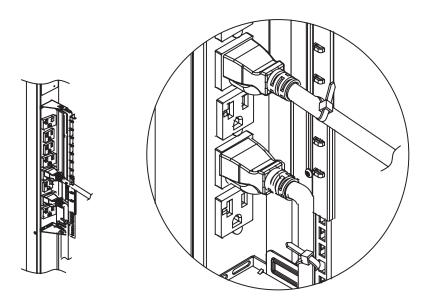
Attach the Cord Retention Tray to the PDU with the supplied Cord Retention Tray Mounting Screws.

Tighten the Cord Retention Tray with the screw on it.



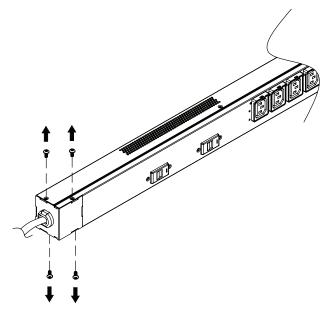
Use the provided Cable Ties to fasten each cord to the Cord Retention Tray.

Note: If the PDUs are intended to install in a high temperature environment, please use the Power Cords that could sustain high temperature operation.



Power Cord Direction Change - OU Models

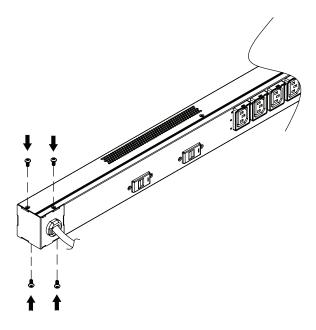
Step 1. Remove the four screws from the power cord cover. Keep the screws for later use.



Step 2. Rotate the power cord cover.



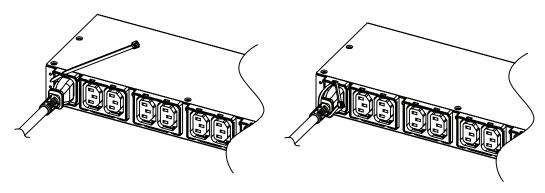
Step 3. Install the power cord cover back to the PDU with the four screws.



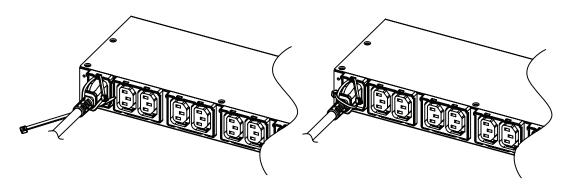
Locking Power Cord - For IEC Type PDU

Input Power Cord

Step 1. Align and insert the Cable Tie from the upper side of the Fixed Stand and fasten it as shown below.

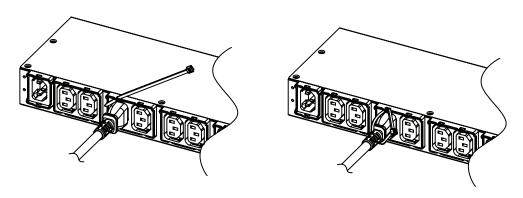


Step 2. Align and insert the Cable Tie from the bottom side of the Fixed Stand and fasten it as shown below.



Output Power Cord

Step 1. Align and insert the Cable Tie from the upper side of the Fixed Stand and fasten it as shown below.



Electrical Installation

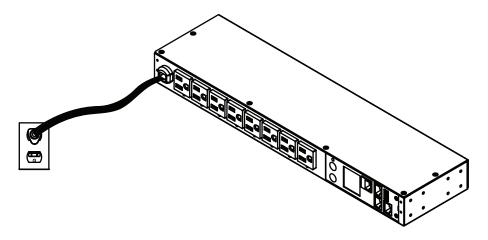


CAUTION! The PDU must be plugged into a three-wire, grounded wall receptacle only. The wall receptacle must also be connected to an appropriate branch circuit/main with fuse or circuit breaker protection. Connection to any other type of wall receptacle may result in a shock hazard.

Step 1. Receptacle evaluation

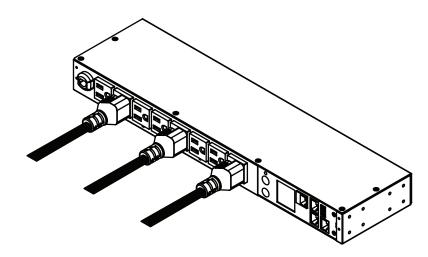
Ensure that the plug type of your PDU unit matches the wall receptacle type that you are using.

Step 2. Plug the PDU into a CyberPower UPS system (recommended) or the wall receptacle.



Step 3. Attach equipment

It is extremely important not to exceed the PDUs maximum current load (as outlined in the Specifications section). In order to determine your total load, use the LCD screen on the front of the PDU to monitor the load being attached.



Network Installation

Step 1 - Network Connection

Using an Ethernet cable, attach one end to the Ethernet port on the front of the PDU, and the other end to a network port.

Step 2 - Establish the PDU IP address

Assigning an IP address to the CyberPower PDU requires the user to have an available IP address that is valid on the respective network. If an available IP address is unknown, contact the network administrator to obtain one.

DHCP is enabled by factory default. If the PDU does not receive an IP address from the network's DHCP server, it will default to 192168.20.177.

There are multiple methods for setting up the IP address on the PDU. Please follow the instructions below for the method that is appropriate for your application. Please make sure the PDU is powered on during this process.

Option 1: Power Device Network Utility (recommended)

- 1. Download and install the Power Device Network Utility software from www.cyberpower.com.
- Open the Power Device Network Utility and select the PDU device from the list and select Tools > Device Setup from the menu.
- 3. Configure the IP Address, Subnet Mask, and Gateway Address to match your network settings.
- 4. Enter the user name and password of the PDU device at the Authentication menu.

Note: The default username is

"cyber" and the default password is "cyber".

Option 2: DHCP Server

- Ask your administrator if there is DHCP server on the LAN.
- 2. Make sure the DHCP is Enabled.
- Make sure the network connection is ready and power on the PDU.
- 4. The PDU will obtain an IP address from the DHCP server automatically.

Option 3: Address Resolution Protocol (ARP) Command

- 1. Obtain the MAC address from the sticker on the PDU.
- Open a command prompt as an administrator and type the following:

"arp -s [available IP address] [MAC address of PDU]". Example: IP Address: arp-s 192.168.20.240

MAC Address: 00-0c-15-80-00-01

3. Use the Ping command to assign a size of 123 bytes to the IP.

Type in "ping 192.168.20.240 -I 123" then press **Enter**. If the replies are received, your computer can communicate with the IP address

Option 4: Hyper Terminal or Terminal Emulator

- Use the included RJ45/DB9 serial port connection cable, attach one end to the serial port on the front of the PDU, and the other end to the PC/ server.
- 2. Open the Hyper Terminal software on your PC and select a name and icon for the connection.
- 3. Setup the COM port settings using the values indicated in Appendix A.
- 4. Press Enter to enter the Authentication menu.
- 5. Enter the user name and password of the PDU device at the Authentication menu.
- 6. Press 2 and Enter to access Network Settings to view the IP address.

Note: The default username is "**cyber**" and the default password is "**cyber**". For further information and configuration via Hyper Terminal, see Appendix A- Hyper Terminal.

Remote Management

The remote management function provides monitoring of the PDU operational information, controlling outlets and utilizing SNMP functionality.

Web

Remote management can be performed via web interface. To access the web interface, please follow the instructions below:

- 1. Enter the IP address of the PDU into a web browser.
- 2. Enter the user name and password of the PDU device at the authentication screen.

Note: The default username is "**cyber**" and the default password is "**cyber**".

For additional information about the features and functionality of CyberPower Management Console, please refer to the Intelligent PDU Web Interface User's Manual available for download from www.cyberpower.com.

Telnet and SSH

The CyberPower PDU provides Telnet and Secure Shell (SSH) as Remote Management methods. Telnet uses user name and password as basic security while SSH has a higher security level with encryption of the transmitted packets including user name, password, and data. Configure the Setting of Telnet and SSH on the Web Interface. The default user name and password is **cyber**; **cyber**.

SNMP

The CyberPower PDU supports SNMPv1 and SNMPv3 protocols. Download the CyberPower MIB file from www. cyberpower.com and add it to an SNMP-supported management software. Default read/write community is **public/private** for SNMPv1. SNMPv3 provides a higher security level than SNMPv1 by encrypting the transmitted packet. Configure the settings of the SNMPv1/SNMPv3 on Web Interface.

LCD Operation

The LCD screen provides instant information, such as voltage, current and power, for the PDU. In addition, users can use the interface to configure each PDU parameters and control each outlet on the Switched PDU. The LCD detects the installation orientation of the PDU (horizontally or vertically), therefore automatically rotates the screen to best fit the reading direction.

A. Scroll Mode:

The PDU information will display in following order automatically when "Scroll Mode On" is configured.

Device Information
Bank 1 Information (2U Series)
Bank 2 Information (2U Series)
Environment Status (Displays when the ENVIROSENSOR is connected)
Alert

B. Main Menu Map

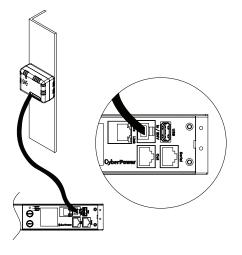
Alert	Current	
Alert	Log	
	Device	
Meter	Bank	
	Outlet	
	Device	Immediate On
	Device	Delay On
Control	Pank 1/2	Immediate Off
Control	Bank 1/2	Delay Off
	Outlet 1-N	Reboot
	Outlet 1-11	Delay Reboot
		Color
	LCD	Brightness
		Direction
		Screen Off
Setting	Reset	Account (User Name and Password)
	Reset	Except TCP
		To Default
	Reboot	
	Model Name	
	Serial Number	
	Network	
About	Daisy Chain (Displays when the PDUs are connected)	
	Hardware Version	
	Frimware Version	

LED Indicators

Indicator	Status	Description	
Status	Green	ОК	
	Orange	Warning	
	Red	Critical	
Tx/Rx	Off	Power Off	
	On (Green)	Power On	
	Flashing	Receiving/transmitting data packet	
		Reset Finished	
LINK	On	Indicates the PDU is connected to the LAN	
	Off	Indicates the PDU is not connected to the LAN	
Outlet	On	Outlet On and providing power	
	Off	Outlet Off	

Environmental Monitoring (optional)

CyberPower PDUs along with the environmental sensor (ENVIROSENSOR) provide temperature and humidity monitoring in a server closet and/or datacenter remotely. To connect the PDU with ENVIROSENSOR, use the RJ45 Ethernet Cable included with the ENVIROSENSOR. Plug one end into the Daisy Chain (In)/ENVIROSENSOR port on the PDU and the other end into the RJ45 port on the ENVIROSENSOR (as shown in figure below). When the PDU correctly connects to the ENVIROSENSOR, users can see the temperature and humidity data via the Web Interface. For further information regarding ENVIROSENSOR configuration, please refer to the Intelligent PDU Web Interface User's Manual.



Device Reset

- To locally reset all the settings to default, use Reset function in the LCD screen.
- To remotely reset all the settings to default, log in to the Web interface, enter the Reset page and apply the function.

Unattended/Automatic Shutdown

PowerPanel® Business Edition (Client) software automatically initiates a graceful shutdown on the connected computer's operating system. PowerPanel must be installed on every computer or server for which the shutdown is to take place. The computer will receive a message from the PDU, and will perform the shutdown according to the instructions provided, including shut downs at exact times and dates.

Step 1. Computer Configuration

- Install PowerPanel® Business Edition Client on every computer or server that will be part of the shutdown process (Follow the instructions in the PowerPanel® Business Edition User Manual).
- 2. Configure the settings in PowerPanel® Business Edition Client. See the PowerPanel Business® Edition User Manual for detailed instructions.

Step 2. PDU Configuration

Verify that the IP address of all computers that will be part of the shutdown process, are included in the Client List on the web interface.

Step 3. Notification

Notifying the computers of potential outlet shutdown can be accomplished using the following functions:

- Outlets Control Menu: Performing the task of turning off or rebooting outlets.
- Scheduling Menu: Setting the PDU to perform the task of turning off or rebooting outlets. The notification will occur prior to the scheduled date/time.
- Outlet Overload: In the event of PDU overload, notification will be sent prior to the PDU shutting down.

Firmware Upgrade

By upgrading the Firmware, you can obtain new features and updates/improvements to existing functionality. To ensure the firmware is kept up to date, please regularly visit our website to see if there is any updated firmware version available. There are three methods for upgrading the PDU firmware. Please follow the instructions below for the method that is appropriate for your application. There are two files to update in order to upgrade the firmware version:

- cpsmpdumafw_XXX.bin
- cpsmpdumadata XXX.bin

Note that the XXX is not part of the file name but is where the version number in the filename is given.

Prior to performing a firmware update, please:

- Download the latest firmware from www.cyberpower.com.
- Extract the downloaded firmware file to your local "C:\" drive.

Note:

- 1. The FTP service needs to be enabled before attempting to execute a firmware upgrade.
- Please do not turn the PDU off when performing the firmware upgrade. PDU outlets will remain powered on while the firmware update takes place. Only the PDU LCD screen will reboot.
- 3. The PDU LCD screen will reboot during the firmware update process. This DOES NOT cause the PDU outlets to reboot.

Option 1: Single Device Upgrade

Use the following steps to upgrade the firmware.

- 1. Open a command prompt window and navigate to "C:\".
- 2. Login to the PDU with FTP command, type
 - C:\>ftp
 - ftp> open 192.168.22.126 21 (for example: 192.168.22.126 is the current IP of the PDU and 21 is the default ftp port for the PDU)
 - Connected to 192.168.22.126.
 - 220 CyberPower FTP Server Ready.
 - User (192.168.22.126:(none)):cyber
 - 331 User name okay, need password.
 - Password:
 - 230 User logged in, proceed.
 - ftp>
- 3. Upload the cpsmpdumafw_XXX.bin, type
 - ftp > bin
 - ftp > put cpsmpdumafw_XXX.bin
- 4. Upgrade complete, type
 - ftp > quit

- 5. The system will reboot after you type "quit". This reboot will take approximately 30 seconds.
- 6. Login to the PDU via FTP again, type
 - C:\>ftp
 - ftp> open 192.168.22.126 21 (for example: 192.168.22.126 is the current IP of the PDU and 21 is the default ftp port for the PDU)
 - Connected to 192.168.22.126.
 - 220 CyberPower FTP Server Ready.
 - User (192.168.22.126:(none)):cyber
 - 331 User name okay, need password.
 - Password:
 - 230 User logged in, proceed.
 - ftp>
- 7. Upload cpsmpdumadata_XXX.bin, type
 - ftp > bin
 - ftp > put cpsmpdumadata_XXX.bin
- 8. Upgrade complete, type
 - ftp > quit
- 9. The system will reboot after you type "quit".

Note: You can check to see if the firmware upgrade is successful by checking the "Firmware version" on the [System->About] screen via web UI.

Option 2: Single or Multiple Device Upgrade (recommended)

Use the following steps to upgrade the firmware.

- Download the Upgrade and Configuration Utility from www.cyberpower.com.
- Open Upgrade and Configuration Utility from Start > All Programs > CyberPower Upgrade and Configuration Utility.
- 3. Wait for search to finish (Figure 1).

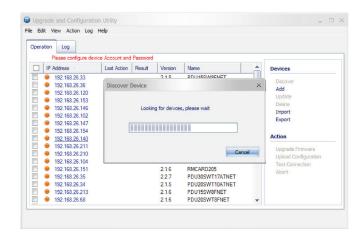


Figure 1

Firmware Upgrade

 Check the checkbox to select devices listed in the Operation View (Figure 2).

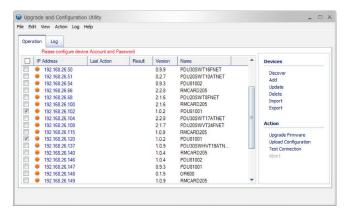


Figure 2

Make sure **Account** and **Password** are valid on selected devices (Figure 3).

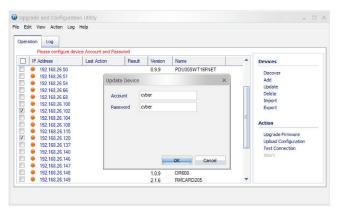


Figure 3

- 6. Select Upgrade Firmware.
- 7. Click **Browse** to locate and select the firmware and data file to be updated (Figure 4).

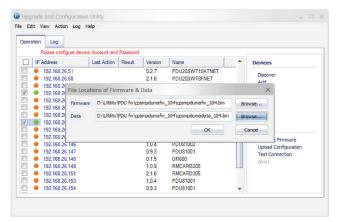


Figure 4

8. Click **OK** in the **Upgrade Firmware** confirmation window (Figure 5).

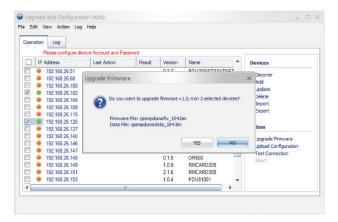


Figure 5

9. The upgrade progress bar will show in **Last Action** column (Shown in Figure 6).

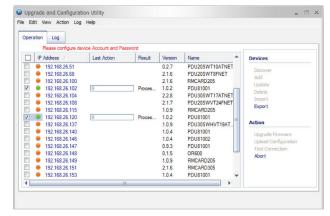


Figure 6

10. The result of firmware upgrade will show in **Result** column (Shown in Figure 7).

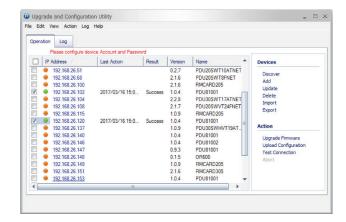


Figure 7

Note: If you don't want to wait for the firmware upgrade, you can stop action by choosing **Abort** in the **Action** menu. However, it's not recommended because **Abort** action may cause the device to malfunction.

Firmware Upgrade

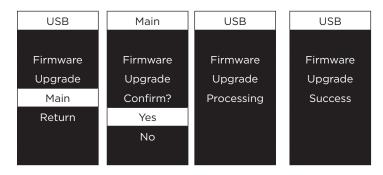
Option 3: Use a USB Flash Drive

Use the following steps to upgrade the firmware.

- 1. Download the latest firmware from www.cyberpower.com.
- Extract the file to the root directory of a USB flash drive with FAT32 format. Please note that the two files below should be available in order to complete the firmware upgrade process:
 - cpsmpdumadata_xxx.bin
 - cpsmpdumafw_xxx.bin
- Plug the USB drive into the PDU USB port and press Enter button on the PDU LCD screen to enter Main Menu. The USB option will be displayed.



 Select USB and press Enter button to enter Firmware Upgrade menu. 5. Select **Main** and **Yes** to start the upgrade process.



6. The PDU will reboot after the process is completed.

Note: You can check to see if the firmware upgrade is successful by checking the "Firmware version" on the [System->About] screen via web UI.

TROUBLESHOOTING

Problem	Possible Cause	Solution
PDU outlets do not provide power to connected equipment	 Breaker tripped Power cord is not properly plugged in 	Reset Breaker, check the plug to insure its connected correctly. If the problem remains, contact technical support.
Amperage displayed on LCD screen exceeds the units capability	Overload	The load indicator shows red when overload. Reduce the load on the PDU until the overload is gone. If the problem remains, contact technical support.
Circuit breakers have tripped	 Sustained overload Excessive ambient or internal temperatures Faulty breaker 	Reset Breaker. If the problem remains, contact technical support.

CONFORMANCE APPROVALS



FCC Warning

WARNING!! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARNING!! 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 in residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice: (1) An unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord by used. (2) Use only shielded cables to connect I/O devices to this equipment.

Note: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

The Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.

Cet appareil numerique de la class A respecte toutes les exigencies du Reglement sur le materiel brouilleur du Canada.

European Union

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CUSTOMER SERVICE & WARRANTY

Product Registration

Thank you for purchasing a CyberPower product. Prompt product registration entitles coverage under the Limited Warranty and also allows the opportunity to be notified of product enhancements, upgrades, and other announcements.

Registration is quick and easy at www.cyberpowersystems. com/registration (for USA and Canada) or www.cyberpower.com/registration (for all other regions).

APPENDIX A-HYPER TERMINAL

Hyper Terminal software can be used for basic PDU configuration. In order for Hyper Terminal to interact with the PDU, the PC/server must be connected directly to the PDU via the serial port with the included RJ45/DB9 serial port connection cable. It utilizes a textbased interface and menu system. Navigation through the interface is done by typing the number of the menu option and pressing the Enter key. Setup the COM port settings using the following values.

• Bits per second: 9600

Data bits: 8Parity: NoneStop bits: 1

• Flow control: None

Note: The session will timeout and logout after 3 minutes of inactivity. Menu options are shown below:

[Main Menu]

- 1. Outlet Manager (Switched PDU Series Only)
- 2. Network Settings
- 3. System Configuration
- 4. Account Settings
- 5. Configure System to Default
- 6. Logout

[Outlet Manager]

- 1. Outlet Control
- 2. Outlet Configuration

[Network Setting]

Physical MAC Address: 00-0C-15-40-08-A9

System IP: 192.168.24.20
 Subnet Mask: 255.255.255.0
 Default Gateway: 192.168.24.254

4. DHCP: Enabled 5. Http Port: 80

6. Http Access: Enabled

[System Configuration]

1. Date (mm/dd/yyyy): 11/11/2011

2. Time (hh:mm:ss): 17:17:25

3. Name:PDU20SW8FNET

4. Contact: Administrator5. Location: Server Room

[Account Setting]

- 1. Administrator
- 2. Viewer (Web Only)

[Configure System to Default]

Sure to Configure System to Default

- 1. Yes
- 2. No

APPENDIX B-POWER DEVICE NETWORK UTILITY

Overview

The CyberPower Power Device Network Utility is an easy-to-use interface which is used for establishing IP addresses on CyberPower PDU devices.

Installation

Step 1. Download the Power Device Network Utility software from www.cyberpower.com.

Step 2. Select **Next** in the software wizard (Figure 1).



Figure 1

Step 3. Choose an installation directory. Select **Next** (Figure 2).

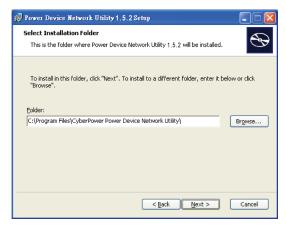


Figure 2

Step 4. Select **Install** to confirm the settings and install (Figure 3).

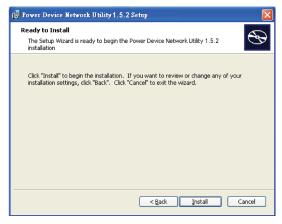


Figure 3

Step 5. Select **Finish** to finalize the installation (Figure 4).



Figure 4

Launch Program

To launch the Power Device Network Utility and get started, select Programs from the Start menu in Windows and locate the new folder and icons for Power Device Network Utility. Select Power Device Network Utility from the program folder (Figure 5).

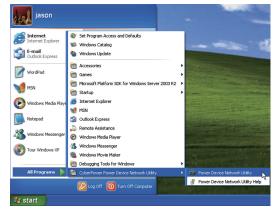


Figure 5. Power Device Network Utility

APPENDIX B-POWER DEVICE NETWORK UTILITY

Getting Started

The Power Device Network Utility scans the network for devices with MAC addresses that match CyberPower network hardware. Once found, the device(s) can then be figured with a specific IP address, subnet mask, and gateway address. This allows the device(s) to function properly on the network and interface with CyberPower Management Console.

Step 1. Select the appropriate PDU device from the Equipment List (Figure 6).

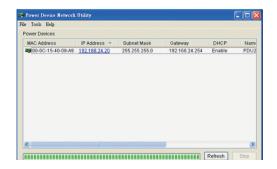


Figure 6. Equipment List

Note: If the PDU does not appear on the list, click the **Refresh** button to rescan the network. If it still does not appear, ensure that the PDU is turned on and was installed correctly. Pressing **Stop** will cancel the scan/refresh process.

Note: If your computer has a software firewall installed, you may see a Windows Security Alert message (Figure 7).

In Windows XP SP2, the default firewall alert message is shown as Figure 7. You need to allow the Power Device Network Utility access through the firewall. Click **Unblock** to allow access.



Figure 7. Windows Security Alert

Step 2. Assign a valid IP Address to the PDU

Option 1: Assisted Setup (recommended)

With the appropriate device selected from the Equipment List, open the Network Settings menu (Figure 8) [Tools=>Device Setup]. In the Device Network Setting Menu, enter a valid IP address, subnet mask, and gateway address to setup the PDU device.



Figure 8. Network Setting Menu (Device Setup)

Note: The DHCP option is not available for all power devices.

Step 3. Authentication

Enter the user name and password of the PDU device at the Authentication menu (Figure 9).

Note: The default username is "cyber" and the default password is "cyber".



Figure 9. Authentication Screen

Advanced Settings

Timeout Settings

The Timeout Setting (Figure 10). [Edit=>Timeout Settings] is used to specify the wait time when scanning for network PDU devices. When there are many devices on the local network, it may take extended periods of time to locate all the devices. The timeout function is used to limit the search time.

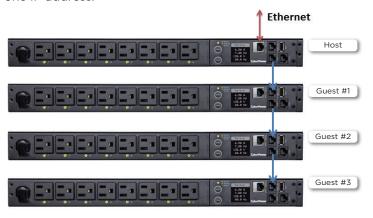
The default setting is 3 seconds. Valid values are 3 to 60 seconds.



Figure 10. Timeout Setting

APPENDIX C - PDU DAISY-CHAIN FUNCTION

The daisy-chain function allows up to four PDUs to be connected together to be monitored and controlled from one IP address.



When PDUs are connected, two roles are defined: Host and Guest. Up to three Guest PDUs can be connected to one Host PDU. The Guest PDUs will be recognized by serial number and their order within the daisy-chain.

Note: To perform the daisy-chain function, the firmware version of the connected PDUs needs to be the same (v1.07 or above).

How to connect the PDUs together?

Use one Ethernet cable and connect one end of it to the daisychain (Out) port on the Host PDU and the other end to the daisychain (In/ENV) port on the Guest 1 PDU to connect the PDUs (as shown below).



What remote management protocols are supported in PDU daisy-chains?

Currently, users can monitor and control daisy-chained PDUs through Web interface (HTTP/HTTPS) or SNMP protocols.

What functions on the web pages does daisychain support?

Find in the table below.

Summary		
	Device Status	
	Outlet Status	
PDU	Device Manager	
PDO	Outlet Manager	
	Outlet Control	
	Outlet Schedule	
	Status Records	
Log	Energy Records	
	Graphing	
System	Identification	

How to switch between Host and Guest PDUs on the Web interface?

Functionality supported by daisy-chained PDUs will have the Host/Guest # drop down menu displayed on the Web interface (as shown below).



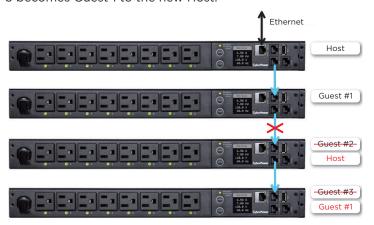
Can I upgrade the firmware version of the Guest PDUs through the Host PDU?

Yes, you can upgrade the firmware using the Upgrade and Configuration Utility, FTP (network connection required), or USB port. Once the Hostcompletes the PDU firmware upgrade, it will trigger its Guest PDUs to upgrade the firmware automatically. It takes about 5 minutes for the Guest PDUs to upgrade, regardless of the number of PDUs in the series.

APPENDIX C - PDU DAISY-CHAIN FUNCTION

What will happen if an Ethernet cable is disconnected in the PDU daisy-chain?

For example, if four PDUs are connected and the cable connecting Guest 1 and 2 is disconnected, then Guest 2 and 3 will no longer be detected by the Host PDU. An event showing that Guest 2 and 3 are removed will be recorded in the Host PDU. Meanwhile, Guest 2 and 3 will create a new daisy-chain where Guest 2 becomes a Host and Guest 3 becomes Guest 1 to the new Host.



In the above example, if the disconnected Ethernet cable is re-connected, will the role of the PDUs stay the same?

Yes, when the disconnected cable between Guest 1 and 2 is re-connected, Guest 2 and 3 will revert to their previous roles.

What happens if one PDU in the daisy-chain is powered off?

For example, if four PDUs are connected and Guest 1 is powered off, an event showing that Guest 1, 2 and 3 are removed will be recorded in the Host PDU. Guest 2 and 3 will not create another daisy-chain.

Does the Host PDU record the logs of the Guest PDUs and itself?

Yes, the Host PDU records the logs from all Guest PDUs daisy-chained to it.

Will the Logs of the Guest PDUs recorded in the Host PDU be cleared if the Guest PDUs are removed from the Host PDU?

No, the Logs of the Guest PDUs will remain even after the Guest PDUs are removed.

Does the Host PDU record the Status Records of the Guest PDUs and itself?

Yes, the Host PDU records the Status Records for all the PDUs in the daisy-chain.

Will the Status Records of the Guest PDUs logged in the Host PDU be cleared if the Guest PDUs are disconnected from the Host PDU?

Yes, once the Guest PDUs are removed, the Status Records logged in the Host PDU will be cleared. As long as the Host PDU does not connect to other PDUs, the Status Records of the disconnected PDU can be displayed when it is reconnected to the Host PDU. If the Host PDU connects to dierent PDUs, the Status Records of the removed PDU will be entirely cleared.

Are the Guest PDUs able to connect to the network when they are daisy-chained?

Yes, even when the PDUs are daisy-chained, the Guest PDUs are able to connect to the network directly. Note that a Guest PDU will require having its own Ethernet cable connected to the network.

What will happen if a 5th PDU is added to a daisy-chain?

The maximum number of PDUs that can be connected in one daisy-chain is 4. The daisy-chain functionality will not work until the fifth PDU is removed.

What is the maximum recommended length of the Ethernet cable to daisy-chain the PDUs?

50 ft (15 m)

TROUBLESHOOTING

Problem	Possible Cause	Solution
The PDUs are connected but the daisy-chain function is not working.	 The firmware version does not support daisy-chain. The PDUs have different firmware versions. 	Reset Breaker, check the plug to insure its connected correctly. If the problem remains, contact technical support.
I cannot set the EnergyWise configuration on a Guest PDU.	Only the Host PDU supports EnergyWise.	N/A
I cannot set the WoL for Guest PDUs.	Only the Host PDU supports WoL.	N/A