

Power Distribution Unit



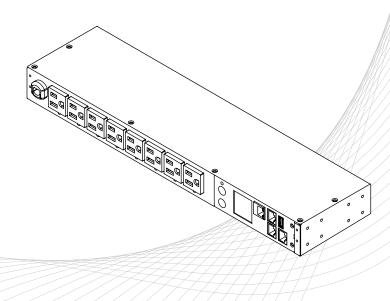


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Model List

Switched Metered by Outlet Series

10	2U	OU
PDU81001	PDU81003	PDU81101
PDU81002	PDU81007	PDU81102
PDU81004	PDU81008	PDU81104
PDU81005	PDU81009	PDU81105
PDU81006		PDU81404
		PDU81405

Metered by Outlet Series

10	2U
PDU71001	PDU71003
PDU71002	PDU71007
PDU71004	PDU71008
PDU71005	PDU71009
PDU71006	

Switched Series

1U	2U	OU	
PDU41001	PDU41003	PDU41101	_
PDU41002	PDU41007	PDU41102	
PDU41004	PDU41008	PDU41104	
PDU41005	PDU41009	PDU41105	
PDU41006		PDU41404	
		PDU41405	

Monitored Series

1U	2U	0U
PDU31001	PDU31003	PDU31101
PDU31002	PDU31007	PDU31102
PDU31004	PDU31008	PDU31106
PDU31005	PDU31009	PDU31406
PDU31006		PDU31114
		PDU31414

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.



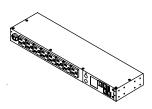
To prevent the risk of fire or electrocution, this PDU should be installed in a temperature and humidity controlled indoor area free of conductive contaminants. Do not install this PDU where excessive moisture or heat is present.



Introduction

Package Contents

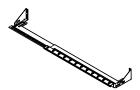
<u>1U Models</u>



PDU



12 (Flat Head M4 x 8) Bracket Mounting Screws



Cord Retention Tray



Cable Ties: Qty: 12 (NEMA outlet PDU) Qty: 27 (IEC outlet PDU)





Mounting Brackets: 2 short & 2 long





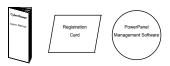
6 (M5 x 12) Rack Mounting Screws/Washers



6 (M3 x 6) Cord Retention Tray Mounting Screws



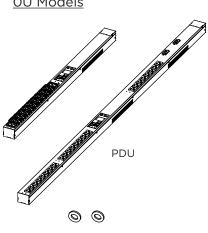
RJ45/DB9 Serial Port Connection Cable



User's Manual, Registration & Software Download Cards

Introduction

Package Contents





6 (M5 x 12) Rack Mounting Screws/Washers



Cord Retention Tray



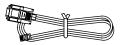
Mounting Brackets with 6 (M4x5) Screws



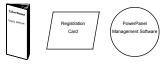
6 (M3 x 6) Cord Retention Tray Mounting Screws



Cable Ties: Qty. 30 (20 outlet PDU) Qty. 36 (24 outlet PDU) Qty. 63 (42 outlet PDU)



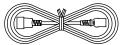
RJ45/DB9 Serial Port Connection Cable



User's Manual, Registration & Software Download Cards

The items below are only included with certain models

3



Power Cord 10ft IEC-320 C13/14 (PDU81004/ PDU71004/ PDU41004/ PDU31004)



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



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

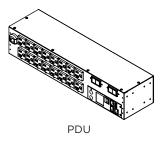


Power Cord 10ft IEC-320 C19 to NEMA L6-20P (PDU81006/ PDU81104/ PDU71006/ PDU41006/ PDU41104/ PDU31006/ PDU31114)

Introduction

Package Contents

2U Models





12 (Flat Head M4 x 8)

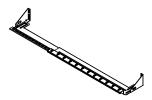
Bracket Mounting Screws



Mounting Brackets x 2



6 (M5 x 12) Rack Mounting Screws/Washers



Cord Retention Tray x 2



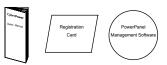
Cable Ties: Qty: 24 (NEMA outlet PDU) Qty: 30 (10 IEC outlet PDU) Qty: 48 (16 IEC outlet PDU)



12 (M3 x 6) Cord Retention Tray Mounting Screws



RJ45/DB9 Serial Port Connection Cable



User's Manual, Registration & Software Download Cards



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

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IEC Type

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- 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. Multifunction LCD Readout Displays various PDU information such as power and load condition.
- E. Ethernet Port Used to connect PDU to the network.
- F. 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.
- I. Daisy Chain (Out) Port Used for chaining to next PDU.
- J. Select Button Used to control the LCD screen and toggle through the available information options.
- K. Enter Button Used to choose selected items, enter to next level menu or return to previous menu.
- L. Outlet Indicator (switched series only) Indicates if the outlet is providing power to connected equipment.

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A. Ground Stud - Use to ground the PDU.

Technical Specifications

Rear Panel Description

•			
Model Name	PDU81001 PDU71001 PDU41001 PDU31001	PDU81004 PDU71004 PDU41004 PDU31004	
Input			
Nominal Voltage	100-120V	100-240V	
Frequency	50/60	Hz	
Maximum Input Current	12A UL (Derated)	10A 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	100-120V	100-240V	
Maximum Output Current	12A UL (Derated)	10A CE/ 12A UL (Derated)	
Outlet Type	NEMA 5-15R	IEC-320 C13	
Outlet Number	8		
Management and Communica	tions		
Multifunction LCD Readout	Voltage, Frequency, Load, Current, HW	/FW Version, Network Information	
Software	PowerPanel® Bus	iness Edition	
Networking	Ye	S	
Serial Port	RJ4	15	
Sensor Capable	Option	nal	
Physical			
Dimensions (H x W x D)	1.75" x 17.05" x 4.41"/ 44r	nm x 433mm x 112mm	
Environmental			
Humidity	0 to 95% Non-	condensing	
Altitude	11480 ft/3	500 m	
Temperature	32°F to 131°F /0°C to 55°C		
Safety Approvals			
Certifications	UL 60950-1, FCC Class A	UL 60950-1, CE, FCC Class A	

* All specifications are subject to change without notice.

Product Features (1U 20A Models)

Front Panel Description

NEMA Type

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IEC Type

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- 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. Multifunction LCD Readout Displays various PDU information such as power and load condition.
- E. Ethernet Port Used to connect PDU to the network.
- F. 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.
- I. Daisy Chain (Out) Port Used for chaining to next PDU.
- J. Select Button Used to control the LCD screen and toggle through the available information options.
- K. Enter Button Used to choose selected items, enter to next level menu or return to previous menu.
- L. Outlet Indicator (switched series only) Indicates if the outlet is providing power to connected equipment.

Rear Pane	l Description	
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A. Ground Stud - Use to ground the PDU.

Technical Specifications

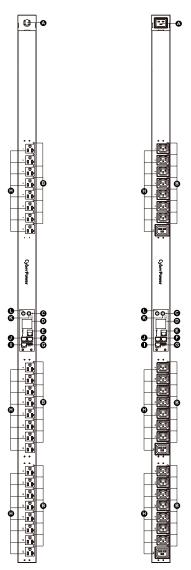
•							
Model Name	PDU81002 PDU71002 PDU41002 PDU31002	PDU81005 PDU71005 PDU41005 PDU31005	PDU81006 PDU71006 PDU41006 PDU31006				
Input							
Nominal Voltage	100-120V	100-240V	200-240V				
Frequency		50/60Hz					
Maximum Input Current		16A CE, UL (Derated)					
Plug Type	NEMA (L) 5-20P (Adapter)	IEC-320 C20	NEMA L6-20P				
Power Cord Type	SR (12 AWG)	Socket	SR (12 AWG)				
Power Cord Length	12 ft/3.65 m	10 ft/3.05 m	12 ft/3.65 m				
Output		·					
Nominal Voltage	100-120V	100-240V	200-240V				
Maximum Output Current		16A CE, UL (Derated)					
Outlet Type	NEMA 5-20R	NEMA 5-20R IEC C13					
Outlet Number		8					
Management and Communica	ations						
Multifunction LCD Readout	Voltage, Frequency, Loa	d, Current, HW/FW Version	, Network Information				
Software	Pov	werPanel® Business Editic	n				
Networking		Yes					
Serial Port		RJ45					
Sensor Capable		Optional					
Physical							
Dimensions (H x W x D)	1.75" x 17.05	" x 4.41"/ 44mm x 433m	m x 112mm				
Environmental							
Humidity	0	to 95% Non-condensing					
Altitude		11480 ft/3500 m					
Temperature	3	2° F to 131° F /0°C to 55° C					
Safety Approvals							
Certifications	UL 60950-1, FCC Class A	UL 60950-1, CE, FCC Class A	UL 60950-1, FCC Class A				

* All specifications are subject to change without notice.

Product Features (OU 16/20A Models)

Front Panel Description

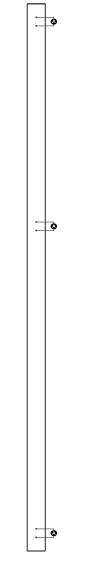
NEMA Type IEC Type



- A. AC Inlet/ AC Power Cord Used to connect PDU to utility power or UPS.
- B. Outlet Indicator (switched series only) Indicates if the outlet is providing power to connected equipment.
- C. Status Indicator Indicates the condition of the PDU (eg. load or environment status).
- D. 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. AC Output Receptacles - Provides power for connected
- equipment. Serial Port (P145 modular port) - Used to connect to a P
- I. Serial Port (RJ45 modular port) Used to connect to a PC and control the PDU locally via SSH/Telnet.
- J. Daisy Chain (Out) Port Used for chaining to next PDU.K. Select Button Used to control the LCD screen and toggle
- K. Select Button Used to control the LCD screen and toggle through the available information options.
- L. Enter Button Used to choose selected items, enter to next level menu or return to previous menu.

Product Features (OU 16/20A Models)

Rear Panel Description



A. Bracket Screw Hole – Used to secure the Mounting Brackets or Mounting Pegs.

Technical Specifications

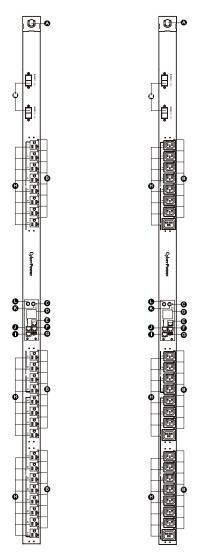
	PDU81101	PDU81104	PDU81404	PDU31114
Model Name	PDU41101 PDU31101	PD081104 PDU41104	PDU41404	PDU31414
Input				
Nominal Voltage	100-120V		200-240	V
Frequency			50/60Hz	
Maximum Input Current	16 A LUL (1	Derated	16A CF	16A UL (Derated)
Maximum input current	16A UL (Derated)		IGA CE	16A CE
	NEMA (L)5-20P			NEMA L6-20P
Plug Type	(Adapter)	NEMA L6-20P	IEC 309 16A	IEC 309 16A
Power Cord Type		S	R (12 AWG)	
Power Cord Length		10) ft/ 3.05 m	
Output				
Nominal Voltage	100-120V		200-240	V
	104.141.0	16A UL (Derated) 16A CE		16A UL (Derated)
Maximum Input Current	16A UL (I	Derated) IBA CE		16A CE
Outlet Type	NEMA 5-20R	21 IEC C13/ 3 IEC C19		18 IEC C13/ 2 IEC C19
Outlet Number	24 21+3		+3	18+2
Management and Communica	ations			
Multifunction LCD Readout	Voltage, Freque	ency, Load, Curre	nt, HW/FW Vers	ion, Network Information
Software		PowerPan	el® Business Edit	ion
Networking			Yes	
Serial Port			RJ45	
Sensor Capable			Optional	
Physical				
Dimensions (H x W x D)	65.5" x 2.2" x	1.9"/ 1665mm x 5	6mm x 48mm	35.5" x 2.2" x 1.9"/ 902mm x 56mm x 48mm
Environmental				·
Humidity		0 to 95%	6 Non-condensin	g
Altitude		1148	80 ft/ 3500 m	
Temperature	32°F to 140°F,	/ 0°C to 60°C	32°F to	131°F/ 0°C to 55°C
Safety Approvals				
				UL 60950-1, FCC Class A
Certifications	UL 60950-1,	FCC Class A	UL 60950-1, CE FCC Class A	UL 60950-1, CE FCC Class A

* All specifications are subject to change without notice.

Product Features (OU 30/32A Models)

Front Panel Description

NEMA Туре IEC Туре



- A. AC Inlet/ AC Power Cord Used to connect PDU to utility power or UPS.
- B. Outlet Indicator (switched series only) Indicates if the outlet is providing power to connected equipment.
- C. Status Indicator Indicates the condition of the PDU (eg. load or environment status).
- D. Multifunction LCD Readout Displays various PDU information such as power and load condition.
- E. Ethernet Port Used to connect PDU to the network.
- F. 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. AC Output Receptacles Provides power for connected equipment.
- I. Serial Port (RJ45 modular port) Used to connect to a PC and control the PDU locally via SSH/Telnet.
- J. Daisy Chain (Out) Port Used for chaining to next PDU.
- K. Select Button Used to control the LCD screen and toggle through the available information options.
- L. Enter Button Used to choose selected items, enter to next level menu or return to previous menu.
- M. Circuit Breaker Provides overload protection.

Product Features (OU 30/32A Models)

Rear Panel Description



A. Bracket Screw Hole – Used to secure the Mounting Brackets or Mounting Pegs.

Technical Specifications

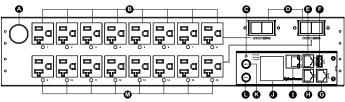
	PDU81102	PDU81105	PDU81405		
Model Name	PDU41102	PDU41105	PDU41405		
	PDU31102	PDU31106	PDU31406		
Input					
Nominal Voltage	100-120V	2	200-240V		
Frequency	50/60Hz				
Maximum Input Current	24A UL (C	erated)	32A CE		
Plug Type	NEMA L5-30P	NEMA L6-30P	IEC 309 32A		
Power Cord Type		SR (10 AWG)			
Power Cord Length		10 ft/ 3.05m			
Output					
Nominal Voltage	100-120V	2	200-240V		
Maximum Output Current	24A UL (D	erated)	32A CE		
Maximum Output Current		20A (per ban	<)		
		21 IEC C13/ 3 IEC C19			
Outlet Type	NEMA 5-20R	36 IEC C13/ 6 IEC C19			
			21+3		
Outlet Number	24	36+6			
Circuit Breaker		Yes			
Management and Communica	tions				
Multifunction LCD Readout	Voltage, Frequency, Lo	ad, Current, HW/FW	Version, Network Information		
Software	Po	werPanel® Busines	s Edition		
Networking		Yes			
Serial Port		RJ45			
Sensor Capable		Optional			
Physical					
Dimensions (H x W x D)	65.5″ x 2.	2" x 1.9"/ 1665mm >	< 56mm x 48mm		
Environmental					
Humidity	(0 to 95% Non-cond	lensing		
Altitude		11480 ft/3500	m		
Temperature	32°F to 140°F /	′0°C to 60°C	32°F to 131°F/ 0°C to 55°C		
Safety Approvals	•				
Certifications	UL 60950-1, F	CC Class A	UL 60950-1, CE, FCC Class A		
Certifications	UL 60950-1, F	CC Class A			

* All specifications are subject to change without notice.

Product Features (2U Models)

Front Panel Description

NEMA Type

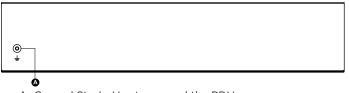


IEC Type

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- 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.
- I. Ethernet Port Used to connect PDU to the network.
- J. Multifunction LCD Readout Displays various PDU
- information such as power and load condition. K. Select Button - Used to control the LCD screen and toggle through the available information options.
- L. Enter Button Used to choose selected items, enter to next level menu or return to previous menu.
- M. Outlet Indicator (switched series only) Indicates if the outlet is providing power to connected equipment.

Rear Panel Description



A. Ground Stud - Use to ground the PDU.

Technical Specifications

PDU71003 PDU41003	PDU71007 PDU41007	PDU71008 PDU41008	PDU81009 PDU71009 PDU41009				
PDU31003	PDU31007	PDU31008	PDU31009				
100 1201/		200.2401/					
100-120 V	-						
NEMA L5-30P							
	121	rt/3.65 m					
100-120V	l						
NEMA 5-20R	IEC C13	12 IEC C13/ 4 IEC C19	IEC C19				
16 12+4 10							
		Yes					
tions							
Voltage, Frequer	ncy, Load, Curren	t, HW/FW Version, Netwo	ork Information				
	PowerPanel	* Business Edition					
		Yes					
		RJ45					
	C	Optional	-				
3.5	x 17.05" x 4.41"/	/ 88mm x 433mm x 112m	m				
	0 to 95%	Non-condensing					
1	1148C) ft/3500 m					
	32°F to 113	3°F /0°C to 45°C					
	tions Voltage, Frequer	100-120V S 24A L 24A L NEMA L5-30P SR 100-120V SR 100-120V 24A L 20A 16 10 16 10 16 10 16 10 10 10 0 3.5" x 17.05" x 4.41", 0 to 95% 11480	100-120V 200-240V 50/60Hz 24A UL (Derated) NEMA L5-30P NEMA L6-30P 3R (10 AWG) 12 ft/3.65 m 100-120V 200-240V 24A UL (Derated) 200-240V 200-120V 200-240V 20A (per bank) 2 NEMA 5-20R IEC C13 12 IEC C13 / 4 IEC C19 16 12+4 Yes Yes Voltage, Frequency, Load, Current, HW/FW Version, Netword PowerPanel [®] Business Edition Yes				

* All specifications are subject to change without notice





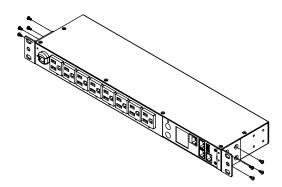
Please use only the provided screws through the entire installation process.

Horizontal Installation

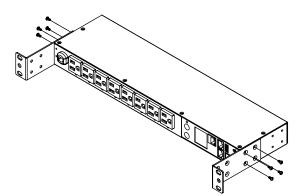
For 1U Models

Step 1. Mounting Bracket Installation

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

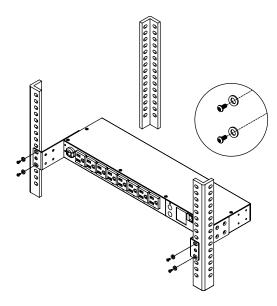


If you plan on attaching the Cord Retention Tray to the PDU, you will need to use the LONG Mounting Brackets (2).

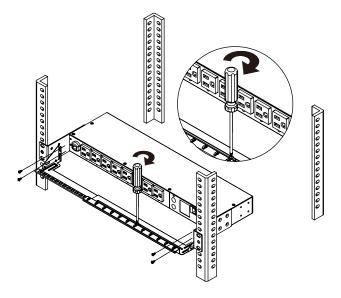


Step 2. PDU Mounting

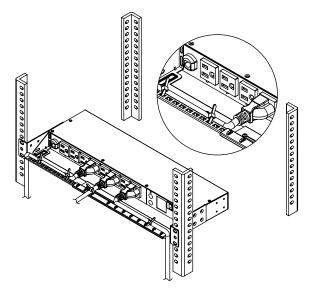
Use the supplied Washers (4) and Screws (4) to secure the PDU to your existing rack system.



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.



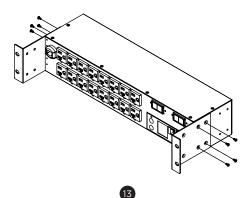
Use the provided Cable Ties to fasten each cord to the Cord Retention Tray.



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

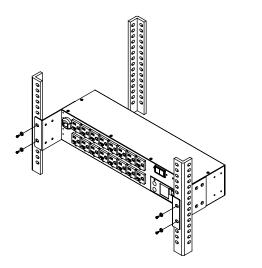
For 2U Models

Step 1. Mounting Bracket Installation Use the provided Mounting Bracket Screws (8) to attach the Mounting Brackets (2) to the PDU.



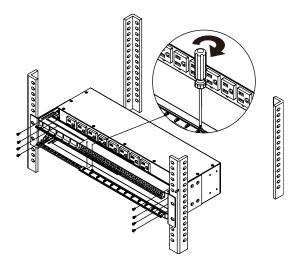
Step 2. PDU Mounting

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

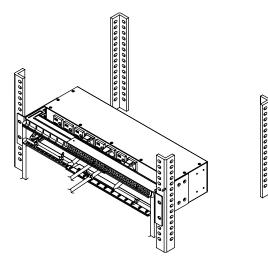


<u>\}22222222222222222222222222</u>

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.



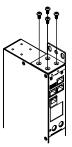
Use the provided Cable Ties to fasten each cord to the Cord Retention Tray.



Vertical Installation

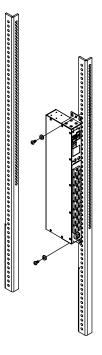
For 1U Models

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

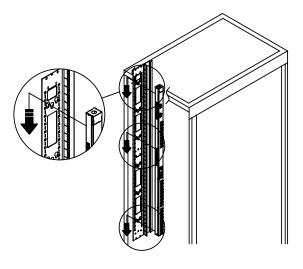
Use the supplied Washers (2) and Screws (2) to secure the PDU to your existing rack system.



For OU Models

Step 1. PDU Mounting

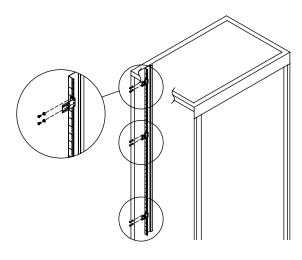
Align the Keyhole Mounts to the Keyhole Slots on the rack. Insert and slide down to lock firmly into the place.

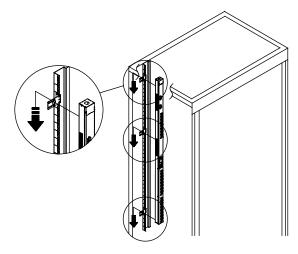


If there is no Keyhole Slot on your rack, please choose from the following methods that is best for your rack deployment to secure the PDU.

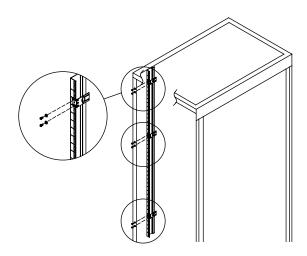
Use the supplied Washers and Rack Mounting Screws to attach the Mounting Brackets to your existing rack system. Align the Keyhole Mounts to the Keyhole Slots on the Mounting Brackets. Insert and slide down to lock firmly into the place.

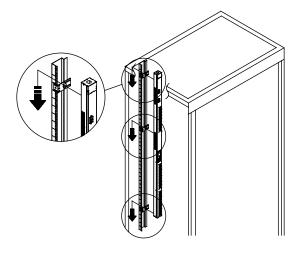
Method 1



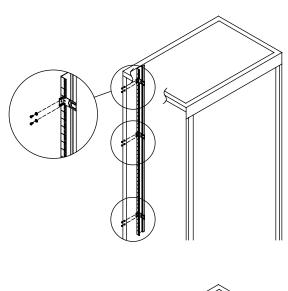


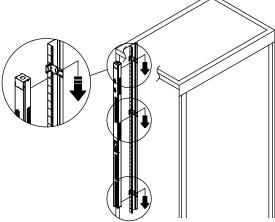
Method 2



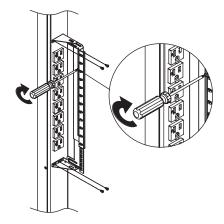


Method 3

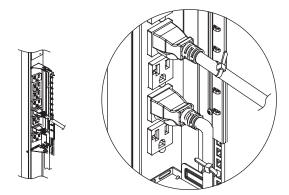




- Step 2. Cord Retention Tray Installation (optional) Adjust the length of the Cord Retention Tray till the screw hole on the Tray and PDU are aligned. Attach the Cord Retention Tray to the PDU with the supplied Cord Retention Tray Mounting Screws. Tighten the Cord Retention Tray with the screw on it.



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

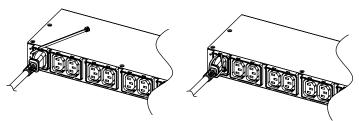


Note: If the PDUs are intended to install in a high temperature environment, please use the Power Cords that could sustain high temperature operation.

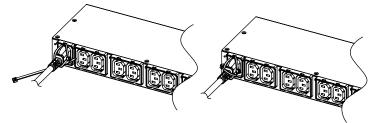
Power Cord Locking - For IEC Type PDU

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.

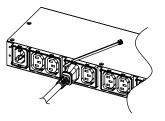


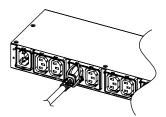
Step 2. Align and insert the Cable Tie from the bottom side of the Fixed Stand and fasten it as shown below.



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.





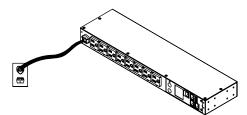
Electrical Installation

Step 1. Receptacle evaluation Ensure that the plug type of your PDU unit matches the wall receptacle type that you are using.



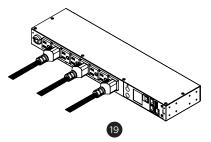
The PDU must be plugged into a three-wire, grounded wall receptacle only. The wall receptacle must also be connected to an appropriate branch circuit/main with fuse or circuit breaker protection. Connection to any other type of wall receptacle may result in a shock hazard.

Step 2. Plug the PDU into 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, simply use the LCD display on the front of the PDU to monitor the load being attached.



Network Installation

- Step 1 Attach the LAN Cable 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.

The default IP is 192.168.20.177 and the default DHCP function is on.

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 (recommended): Power Device Network Utility
- 1. Download the Power Device Network Utility software.
- Highlight the PDU device from the list and select Tools > Device Setup from the menu.
- 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

- 1. Ask your administrator if there is DHCP server on the LAN.
- 2. Make sure the DHCP is Enabled.
- 3. 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.
- 2. Open a command prompt as an administrator and type the following:

"arp -s [available IP address] [MAC address of PDU]". Example: arp -s 192.168.20.240 00-0c-15-80-00-01 IP Address MAC Address

- 3. Use the Ping command to assign a size of 123 bytes to the IP.
 - * Type in "ping 192.168.20.240 -1 123" then press **Enter**. * If the replies are received, your computer can communicate with the IP address

Option 4: Hyper Terminal or Terminal Emulator

In order for Hyper Terminal to interface with the PDU, the PC/server must be connected directly to the PDU via the serial port.

- 1. 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 following values.
 - * Bits per second: 9600
 - * Data bits: 8
 - * Parity: None
 - * Stop bits: 1 * Flow control: None
- 4. Type "setup" and press **Enter** to enter the Authentication menu.
- 5. 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".

For further information and configuration via Hyper Terminal, see Appendix A- Hyper Terminal.

Operation

Remote Management

The remote management function provides monitoring of the MBO 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 (Internet Explorer, Firefox).
- 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.

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 Remote Management protocols. Download the CyberPower MIB file and add it to an SNMP-supporting 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.

Local Management

LCD Operation

The LCD display 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.

5
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

Main Menu M	ар	
Alert	Current	
Alert	Log	
	Device	
Meter	Bank	
	Outlet	
	Device	Immediate On
	Device	Delay On
Control	Bank 1/2	Immediate Off
Control		Delay Off
	Outlet 1-N	Reboot
	Outlet I-IN	Delay Reboot
		Color
	LCD	Brightness
		Direction
		Screen off
Setting		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	1
	Firmware Version	7



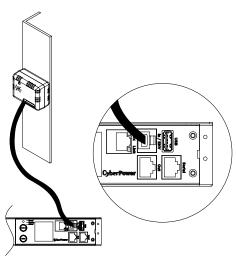
Operation

LED Indicators

Indicator	Status	Description			
	Green	The PDU status is ok.			
Status	Orange	Warning.			
	Red	Critical.			
	Off	The PDU power is off.			
T. /D./	On (Green)	The PDU power is on.			
Tx/Rx	Flashing	Receiving/transmitting data packet.			
	Flashing	Reset finished.			
LINK	On	Indicates the PDU is connected to the LAN.			
	Off	Indicates the PDU is not connected to the LAN.			
Outlet	On	The outlet is on and providing power.			
Outlet	Off	The outlet is off.			

Environmental Monitoring (optional)

CyberPower PDUs along with the environment 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. 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 below). When the PDU correctly connects to the ENVIROSENSOR, users can see the temperature and humidity data on the Web Interface. For further information regarding ENVIROSENSOR configuration, please refer to the Intelligent PDU Web Interface User's Manual.



Device Reset

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

Unattended/Automatic Shutdown

PowerPanel Business Edition software automatically initiates a graceful shutdown on the operating system. PowerPanel must be installed on every computer or server for which the shutdown is to take place. The software 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. PC Configuration

- 1. 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 additional help.

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 of web interface.



Operation

Step 3. Notification

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

- Outlets Control Menu: Performing the task of turning off or rebooting outlets.
- Scheduling Menu: Setting the application 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. There are three methods for upgrading the PDU firmware. Please follow the instructions below for the method that is appropriate for your application.

Note: Please do not turn the PDU off when processing the Firmware upgrade.

Option 1: Single Device Upgrade

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.

Use the following steps to upgrade the firmware.

1. Download the latest firmware from www.cyberpower.com

- 2. Extract the file to "C:\"
- 3. Open a command prompt window and navigate to "C:\".
- 4. 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>
- 5. Upload the cpsmpdumafw_XXX.bin, type

 - ftp > bin ftp > put cpsmpdumafw_XXX.bin
- 6. Upgrade complete, type
- ftp > quit
- 7. The system will reboot after you type "quit". This reboot will take approx. 30 seconds.
- 8. Login to the FTP again
 - 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>
- 9. Upload cpsmpdumadata_XXX.bin
 - ftp > bin - ftp > put cpsmpdumadata_XXX.bin
- 10. Upgrade complete , type
- ftp > quit
- 11. The system will reboot after you type "quit".

You can check to see if the firmware upgrade is successful by checking the "Firmware version" on the [System->About] webpage.

Firmware Upgrade

Option 2: Single or Multiple Device Upgrade

Use the following steps to upgrade the firmware.

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

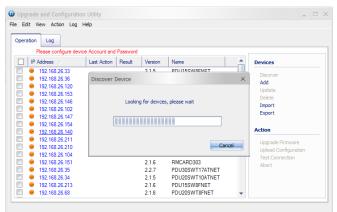


Figure 1

 Check the checkbox to select devices on list of **Operation View** (Shown in Figure 2).

eration Log						
Please configure de	vice Account and Par Last Action	Result	Version	Name		Devices
192.163 25 50 192.163 25 51 192.163 25 51 192.163 25 51 192.163 25 54 192.163 25 54 192.163 25 56 192.163 25 56 192.163 25 56 192.163 25 66 192.163 25 100 192.163 25 100 192.163 25 100 192.163 25 100 192.163 25 100 192.163 25 100 192.163 25 100 192.163 25 140 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 146 192.163 25 147 192.163 25 147 192.163 25 147 192.163 25 147 192.163 25 147 192.163 25 147 192.163 25 147 192.163 25 147 192.163 25 147			0.9.9 0.2.7 0.9.3 2.2.8 2.1.6 2.1.6 2.1.6 1.0.4 2.2.8 2.1.7 1.0.4 1.0.4 1.0.4 1.0.4 0.9.3 0.1.5 1.0.9 2.1.6	PDU30SWT16FNET PDU30SWT04TNET PDU30SWT04TNET PDU30SWT04NET saveCof PDU30SWT17ATNET PDU30SWT17ATNET PDU30SWT17ATNET PDU30SWT17ATNET PDU30SWT17ATNET PDU30SWT17ATNET PDU30SUT010C0u0Record PDU3000 PDU300 PDU30000 PDU30	E	Discover Add Uodate Delete Export Export Action Uograde Firmware Uolad Configuration Test Connection Abort

Figure 2

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

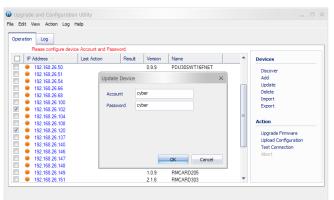


Figure 3

Firmware Upgrade

- 6. Choose Upgrade Firmware item to popup a File Locations of Firmware & Data Window in Action menu.
- 7. Click **Browse** button and assigning the firmware file path in **Firmware** field (Shown in Figure 4).

ration Log								
Please configure d	1	1	1	[
] IP Address 🛆	Last Action	Result	Version	Name		Devices		
9 192.168.26.51			0.2.7	PDU20SWT10ATNET		Discover		
9 192.168.26.68			2.1.6	PDU20SWT8FNET		Add		
192.168.20 Tile	ocations of Fir	muraro e	Data			×		
9 192.168.2	Locations of Fil	inware o	Data			~		
192.168.2 Firm	ware D:\Ultility	PDU fiv\cp	smpdumafiv.	104\cpsmpdumafw_104.bin	Bri	owse		
9 192.168.2						Browse		
9 192.168.2 Dati	D:\Ultility	PDU fw\cp	osmpdumafiv <u>.</u>	_104\cpsmpdumadata_104.bi				
9 192.168.2								
9 192.168.2				OK	0	Cancel		
9 192.168.2						e Firmware		
9 192.168.26.146			1.0.4	PD081002		Upload Configuration		
9 192.168.26.147			0.9.3	PDU81001		Test Connection		
9 192.168.26.148			0.1.5	OR600		Abort		
9 192.168.26.149			1.0.9	RMCARD205				
9 192.168.26.151			2.1.6	RMCARD303				
9 192.168.26.153			1.0.4	PDU81001				
192.168.26.154			0.9.3	PDU81001DD	-			



- 8. Same as step 6, assign the data file path in **Data** field.
- Click OK button to popup a confirm Upgrade Firmware message box.
- 10. Click **Yes** button starting to upgrade firmware on selected devices (Shown in Figure 5).

e Ed		Action Log) Help					
	Pleas	e configure d	evice Account and Passw	ord				
	IP Addre	ess 🛆	Last Action	Result	Version	Name	-	Devices
	9 192	168 26 51		-	027	PDI IONGIA/T10A	TNET	
	9 192	168 26 68	Upgrade Frimware					× Discover
	9 192	168.26.100						Add
V	• 192	168.26.102						Jpdate
	9 192	168.26.104				f device's version.		Delete
	• 192	168.26.108	you want t	o upgrade fir	mware v1.0.	4 again on 2 select	ed devices?	
	9 192	168.26.115						Export
1	9 192	168.26.120		ile: cpsmpdu psmpdumad	mafw_104.bi	n		
	9 192	168.26.137	Data File; C	peripuuriau	ata_104.001			tion
	9 192	168.26.140						Jpgrade Firmware
	9 192	168.26.146				YES	NO	Jpload Configuration
	9 192	168.26.147						Test Connection
	9 192	168.26.148			0.1.5	OR600		Abort
	9 192	168.26.149			1.0.9	RMCARD205		HUUT C
	9 192	168.26.151			2.1.6	RMCARD303		
	192	168.26.153			1.0.4	PDU81001	-	
4							•	

Figure 5

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

Edit View Action Lo	g Help					
ration Log						
Please configure d	evice Account and Pas	sword				
IP Address	Last Action	Result	Version	Name	Devices	
 192.168.26.51 192.168.26.68 192.168.26.100 192.168.26.102 192.168.26.102 192.168.26.104 192.168.26.104 192.168.26.120 192.168.26.120 192.168.26.147 192.168.26.147 192.168.26.147 192.168.26.147 192.168.26.148 192.168.26.147 192.168.26.147 192.168.26.148 192.168.26.147 	(i) (i)	Proces Proces	0.2.7 2.1.6 2.1.6 1.0.4 2.2.8 2.1.7 1.0.9 1.0.2 1.0.9 1.0.4 1.0.4 0.9.3 0.1.5 1.0.9	PDU20SWT10ATNE PDU20SWT8FNET saveCorf PDU31001_1 PDU30SWT17ATNE PDU20SWVT24FNE RMCARD205 PDU31001 PDU3000HVT19AT PDU31001CloudRec PDU31002 PDU31001 OR600 RMCARD205	T Discover Add Update Delete Import Export Action Upgrade F	nfiguration
 192.168.26.151 192.168.26.153 			2.1.6 1.0.4	RMCARD303 PDU81001	-	

Figure 6

- 12. Wait for firmware upgrade to finish.
- 13. The result of firmware upgrade will show in **Result** column (Shown in Figure 7).

IP Address △ ● 192.168.26.51 ● 192.168.26.68	ce Account and Passwo Last Action	rd Result			
 192.168.26.51 192.168.26.68 	Last Action	Result			
9 192.168.26.68			Version	Name 🍝	Devices
1 92: 168:26:100 192: 168:26:102 192: 158:26:104 192: 168:26:108 192: 168:26:115 192: 168:26:115 192: 168:26:115 192: 168:26:137 192: 168:26:137 192: 168:26:147 192: 168:26:149 192: 168:26:149 192: 168:26:149 192: 168:26:149	2017/03/16 15.0 2017/03/16 15.0	Success	0.2.7 2.1.6 2.1.6 1.0.4 2.2.8 2.1.7 1.0.9 1.0.4 1.0.9 1.0.4 1.0.9 1.0.4 0.9.3 0.1.5 1.0.9 2.1.6 1.0.4	PDU23SWT10ATNET EXPECTATION PDU30SWT17ATNET PDU30SWT17ATNET PDU30SWT17ATNET RMCAR0205 PDU30SWH/T13AT PDU30SWH/T13AT PDU31001CoudRec PDU31001 OR600 RMCAR0205 RMCAR0205 RMCAR0203	Discover Add Update Detete Import Export Action Upgrade Firmware Upgrade Firmware Upgrade Configuration Test Connection Abort



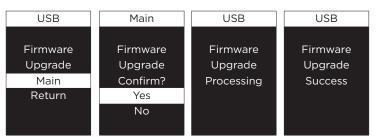
Note: If you don't want to wait for the firmware upgrade, you can stop action by choosing **Abort** in the **Action** menu. However, it's not recommended because **Abort** action may cause the device to malfunction.

Option 3: Use a USB Flash Drive

- Use the following steps to upgrade the firmware.
- 1. Download the latest firmware from <u>www.cyberpower.com.</u>
- 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.



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



- 4. The PDU will reboot after the process is completed.
- **Note:** To ensure PDU firmware is kept up to date, please visit our website every 3 months to see if there is any updated firmware version available.

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 Display 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.

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.cyberpower.com under "Support".

Cyber Power International

Feel free to contact our Tech Support department with installation,

troubleshooting, or general product questions.

Cyber Power Systems, Inc.

Web: <u>www.cyberpower.com</u>

For USA and Canada:

4241 12th Ave East, Suite 400 Shakopee, MN55379

Toll-free: (877) 297-6937 For all other regions:

Please visit our website for local contact information.

Limited Warranty

Read the following terms and conditions carefully before using the CyberPower PDU series. By using the Product, you consent to be bound by and become a party to the terms and conditions of this Limited Warranty. If you do not agree to the terms and conditions of this Warranty, you should return the Product for a full refund prior to using it.

Who Is Providing This Warranty?

CyberPower Systems, Inc. provides this Limited Warranty.

What Does This Warranty Cover?

This warranty covers defects in materials and workmanship in the Product under normal use and conditions.

What Is the Period of Coverage?

For USA and Canada, CyberPower provides a 3-Year warranty to the original purchaser who owns the Product. For other regions, please contact your local CyberPower sales team for more information.

Who Is Covered?

This warranty only covers the original purchaser. Coverage ends if you sell or otherwise transfer the Product.

How Do You Get Service?

- 1. You can use the contact information mentioned above for instructions.
- 2. When you contact CyberPower, identify the Product and the Purchase Date.
- 3. You must provide a purchase receipt (or other proof of the original purchase) and provide a description of the defect.

What Will We Do To Correct Problems?

CyberPower will inspect and examine the Product. If the Product is defective in material or workmanship, CyberPower will repair or replace it at CyberPower's expense, or, if CyberPower is unable to or decides not to repair or replace the Product (if defective) within a reasonable time, CyberPower will refund to you the full purchase price you paid for the Product (purchase receipt showing price paid is required).

Who Pays for Shipping?

We pay when we send items to you; you pay when you send items to us.

What Are Some Things This Warranty Does Not Cover?

- This Warranty does not cover any software that is damaged or needs to be replaced due to the failure of the Product or any data that is lost as a result of the failure or the restoration of data or records, or the re-installation of software.
- 2. This Warranty does not cover or apply to: misuse, modification, operation or storage outside environmental limits of the Product or the equipment connected to it, nor for damage while in transit or in storage, nor if there has been improper operation or maintenance, or use with items not designed or intended for use with the Product, such as laser printers, appliances, aquariums, medical or life support devices, etc.

What are the Limitations?

- This Warranty does not apply unless the Product and the equipment that was connected to it were connected to properly wired and grounded outlets (including compliance with electrical and safety codes of the most current electrical code), without the use of any adapters or other connectors.
- 2. The Product must have been plugged directly into the power source and the equipment connected to the Product must be directly connected to the Product and not "daisy-chained" together in serial fashion with any extension cords, another Product or device similar to the Product, surge suppressor, or power tap. Any such installation voids the Limited Warranty.
- 3. The Product and equipment connected to it must have been used properly in a suitable and proper environment and in conformance with any license, instruction manual, or warnings provided with the Product and the equipment connected to it.
- 4. The Product must have been used at all times within the limitations on the Product's VA capacity.
- 5. The sole and exclusive remedies of the Initial Customer are those provided by this Warranty.



Appendix A-Hyper Terminal

Hyper Terminal software can be used for basic PDU configuration. It utilizes a text-based interface and menu system. Navigation through the interface is done by typing the number of the menu option and pressing the Enter key. For COM port setting values, please refer to p.12 Option 4: Hyper Terminal or Terminal Emulator section. Note: The session will timeout and logout after 3 minutes of inactivity. Menu options are shown below:

[Main Menu]

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

[Outlet Manager]

Outlet Control
 Outlet Configuration

[Network Setting]

Physical MAC Address: 00-0C-15-40-08-A9 1. System IP: 192.168.24.20 2. Subnet Mask: 255.255.255.0 3. 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: Administrator 5. Location: Server Room

[Account Setting]

Administrator
 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

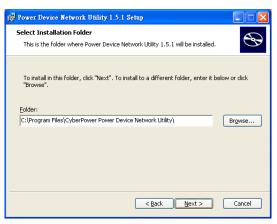
Step 1. Download the Power Device Network Utility software. Step 2. Select **Next** in the software wizard (Shown in Figure 1).



Figure 1

Appendix B-Power Device Network Utility

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





Step 4. Select **Install** to comfirm the settings and install (Shown in Figure 3).

🖟 Power Device Network Utility 1.5.1 Setup
Ready to Install The Setup Wizard is ready to begin the Power Device Network Utility 1.5.1
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
< <u>Back</u> Install Cancel

Figure 3

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



Figure 4

Appendix B-Power Device Network Utility

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 (Shown in Figure 5).

jason		-
Internet Internet Explorer E-mail Outlook Express	 Set Program Access and Defaults Windows Catalog Windows Update 	
WordPad	Accessories Games Microsoft Platform SDK for Windows Server 20 Startup	003 R2
Windows Media Playe	m Startup Startup MSN Southook Express	
Windows Messenger	Remote Assistance Windows Media Player Mindows Messenger	
All Programs	Windows Movie Maker Debugging Tools for Windows CyberPower Power Device Network Utility	Ell Power Device Network Utility
🕼 start	Log Off O Turn Off Computer	Power Device Network Utility Holp

Figure 5. 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 (Shown in Figure 6).

e Tools Help					
ower Devices					
MAC Address	IP Address 👻	Subnet Mask	Gateway	DHCP	Nam
00-0C-15-40-08-A9	192.168.24.20	255.255.255.0	192.168.24.254	Enable	PDU

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 (Shown in 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.

😺 Wind	lows Secu	urity Alert	X
۲		protect your computer, Windows Firewall has blocke stures of this program.	ed
Do you	want to k	ceep blocking this program?	
		Power Device Network Utility Unknown	
		Keep Blocking	
Internet	or a network	as blocked this program from accepting connections from the k. If you recognize the program or trust the publisher, you can <u>ould 1 unblock a program?</u>	

Figure 7. Windows Security Alert

Appendix B-Power Device Network Utility

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 (Shown in 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.

Device Network Se	ettings	X
Device MAC Ad	dress: 00-0C-15-40-08-A9	
Using DHCP	OYes ⊙No	
IP Address	192 . 168 . 24 . 20	
Subnet Mask	255 . 255 . 255 . 0	
Gateway	192 . 168 . 24 . 254	
	Save Cance	9

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 (Shown in Figure 9).

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

Authentication	
Enter the user i	name and password to save changes.
User name:	
Password:	
	OK Cancel

Figure 9. Authentication screen

Advanced Settings

Timeout Settings

The Timeout Setting (Shown in 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.

Timeout Setting
The time to wait all devices response in 3 🗸 seconds.
OK Cancel Default
OK Cancer Deradit

Figure 10. Timeout Setting



Cyber Power Systems, Inc. www.cyberpower.com