

YOUR ULTIMATE ALLY IN POWER

POWER DISTRIBUTION UNITS

15A / 20A / 30A / 32A SWITCHED / METERED / MONITORED SERIES

USER MANUAL



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MODEL LIST

Switched Metered by Outlet Series						
PDU81021	PDU81026	PDU81326				
PDU81022	PDU81027	PDU81327				
PDU81023	PDU81028	PDU81328				
PDU81024	PDU81029	PDU81329				
PDU81025	PDU81030	PDU81330				
Metered by O	utlet Series					
PDU71021	PDU71026	PDU71326				
PDU71022	PDU71027	PDU71327				
PDU71023	PDU71028	PDU71328				
PDU71024	PDU71029	PDU71329				
PDU71025	PDU71030	PDU71330				
Switched Serie	es					
PDU41021	PDU41026	PDU41326				
PDU41022	PDU41027	PDU41327				
PDU41023	PDU41028	PDU41328				
PDU41024	PDU41029	PDU41329				
PDU41025	PDU41030	PDU41330				
Monitored Ser	ries					
PDU31021	PDU31026	PDU31326				
PDU31022	PDU31027	PDU31327				
PDU31023	PDU31028	PDU31328				
PDU31024	PDU31029	PDU31329				
PDU31025	PDU31030	PDU31330				

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.
- Straight by means of a power cord connected to a socket-outlet with earthing connection and that for pluggable equipment, the socket-outlet shall be easily accessible.
- Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.
- Equipment intended for installation in Restricted Access Location.



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.

PRÉCAUTIONS DE SÉCURITÉ

Lisez ce qui suit avant d'installer ou d'utiliser les unités de distribution de l'alimentation (PDU):

- Utilisez uniquement le matériel fourni pour fixer les supports de montage.
- Le PDU doit être branché sur une prise à trois fils mise à la terre sur un circuit protégé par un fusible ou un disjoncteur.

Pour la série PDU 15A, veuillez utiliser disjondteur de 15A. Pour la série PDU 20A, veuillez utiliser un disjoncteur de 20A. Pour la série PDU 30A, veuillez utiliser un disjoncteur de 30A. La connexion à tout autre type de prise de courant peut provoquer un choc électrique.

- N'utilisez pas de rallonges ni d'adaptateurs avec ce PDU.
- N'installez jamais un PDU ni le câblage ou l'équipement associé pendant un orage.
- Assurez-vous que le cordon d'alimentation, la fiche et la prise sont en bon état.
- Pour le PDU avec les cordons d'alimentation d'entrée connectés, la prise doit être installée à proximité de l'équipement et doit être facilement accessible.
- Assurez-vous de débrancher les cordons d'alimentation et toutes les sources d'alimentation avant de tenter de réparer ou de retirer cette unité.
- Pour le dispositif de protection contre les surintensités des équipements, veuillez noter que tous les PDU avec un courant d'entrée supérieur à 20A sont équipés de deux disjoncteurs de dérivation à montage encastré
- Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75.
- Équipement destiné à être installé dans un emplacement à accès restreint.

INTRODUCTION

Package Contents



The items below are only included with certain models



Power Cord 10ft IEC 320 C13/14 PDU81024 / PDU71024 / PDU41024 / PDU31024



Power Cord 10ft IEC 320 C19/20 PDU81025 / PDU71025 / PDU41025 / PDU31025



Adapter NEMA L5-20R to 5-20P PDU81022 / PDU71022 / PDU41022 / PDU31022



Power Cord 10ft IEC 320 C19 to NEMA L6-20P PDU81026 / PDU71026 / PDU41026 / PDU31026



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 - 15A MODELS

Front Panel Description

NEMA Type



IEC Type



A AC Inlet/ AC Power Cord - Used to connect PDU to G USB Port - Used to upgrade the firmware via a utility power or UPS. flash drive. **B** AC Output Receptacles - Provides power for H Serial Port (RJ45 modular port) - Used to connect to a PC and control the PDU locally. connected equipment. C Status Indicator - Indicates the condition of the PDU Daisy Chain (Out) Port - Used for chaining to next PDU. (eg. load or environment status). **J** Select Button - Used to control the LCD screen and Multifunction LCD Readout - Displays various PDU toggle through the available information options. D information such as power and load condition. K Enter Button - Used to choose selected items, enter to B Ethernet Port - Used to connect PDU to the network. next level menu or return to previous menu. ENVIROSENSOR/ Daisy Chain (In) Port Outlet Indicator (switched series only) - Indicates if B C (RJ45 modular port) - Used for ENVIROSENSOR or the outlet is providing power to connected equipment. chaining to previous PDU. M Ground Stud - Used to ground the PDU. 4

TECHNICAL SPECIFICATIONS - 15A MODELS

Model Name	PDU81021 PDU71021 PDU41021 PDU31021	PDU81024 PDU71024 PDU41024 PDU31024		
Input				
Nominal Voltage	100 - 120 V	100 - 240 V		
Frequency	50 /	60Hz		
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 - 120 V	100 - 240 V		
Maximum Output Current	12A UL (Derated)	10A CE / 12A UL (Derated)		
Outlet Type	NEMA 5-15R	IEC 320 C13		
Outlet Number	16			
lanagement and Communications				
Multifunction LCD Readout	Voltage, Frequency, Load, Current, HW/FW Version, Network Information			
Software	PowerPanel [®] Business Edition			
Networking	Yes			
Serial Port	RJ45			
Sensor Capable	Opti	ional		
Physical				
Dimensions (H x W x D)	1.75 x 17.05 x 8.45 in.	. / 44 x 433 x 215 mm		
Environmental				
Humidity	0 to 95% Noi	n-condensing		
Altitude	11,483 ft /	/ 3,500 m		
Temperature	32°F to 140° F	/ 0° C to 60° C		
Safety Approvals				
Certifications	UL 62368-1 / FCC Class A	UL 62368-1 / CE EN55032 / FCC Class A		

All specifications are subject to change without notice.

PRODUCT FEATURES - 20A MODELS

Front Panel Description





IEC Type



A	AC Inlet/ AC Power Cord - Used to connect PDU to utility power or UPS.	G	USB Port - Used to upgrade the firmware via a flash drive.
B	AC Output Receptacles - Provides power for connected equipment.	C	Serial Port (RJ45 modular port) - Used to connect to a PC and control the PDU locally.
C	Status Indicator - Indicates the condition of the PDU	0	Daisy Chain (Out) Port - Used for chaining to next PDU.
D	(eg. load or environment status). Multifunction LCD Readout - Displays various PDU	J	Select Button - Used to control the LCD screen and toggle through the available information options.
0	Ethernet Port – Used to connect PDU to the network.	K	Enter Button - Used to choose selected items, enter to next level menu or return to previous menu.
Ø	ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) - Used for ENVIROSENSOR or	C	Outlet Indicator (switched series only) – Indicates if the outlet is providing power to connected equipment.
	chaining to previous PDU.	M	Ground Stud - Used to ground the PDU.
		6	

TECHNICAL SPECIFICATIONS - 20A MODELS

Model Name	PDU81022 PDU71022 PDU41022 PDU31022	PDU81025 PDU71025 PDU41025 PDU31025	PDU81026 PDU71026 PDU41026 PDU31026	PDU81326 PDU71326 PDU41326 PDU31326	
Input					
Nominal Voltage	100 - 120 V		100 - 240 V		
Frequency		50 /	60Hz		
Maximum Input Current		16A CE, UL	(Derated)		
Plug Type	NEMA (L) 5-20P (Adapter)	IEC 320 C20	NEMA L6-20P	IEC 309 16A	
Power Cord Type	SR (12 AWG)		Socket		
Power Cord Length	12 ft / 3.65 m	10 ft / 3.05 m	12 ft / 3	3.65 m	
Output					
Nominal Voltage	100 - 120 V		100 - 240 V		
Maximum Output Current		16A CE, UL	(Derated)		
Number of Banks		2			
Outlet Type	NEMA 5-20R		IEC C13		
Outlet Number		1	6		
Management and Commun	lications				
Multifunction LCD Readout	Voltage, Frequency, Load, Current, HW/FW Version, Network Information				
Software		PowerPanel® B	usiness Edition		
Networking		Ye	es		
Serial Port	RJ45				
Sensor Capable	Optional				
Physical					
Dimensions (H x W x D)		1.75 x 17.05 x 8.45 in.	/ 44 x 433 x 215 mm		
Environmental					
Humidity		0 to 95% Nor	n-condensing		
Altitude		11,483 ft /	⁄ 3,500 m		
Temperature		32°F to 140° F	/ 0° C to 60° C		
Safety Approvals	·				
Certifications	UL 62368-1, FCC Class A	UL 62368-1, CE, EN55032, FCC Class A	UL 62368-1, FCC Class A	UL 62368-1, CE, EN55032, FCC Class A	

All specifications are subject to change without notice.

PRODUCT FEATURES - 30A 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 (eg. load or environment status).
- **D** Circuit Breaker Provides overload protection.
- Environmental Sensor/ Daisy Chain (In) Port (RJ45 modular port) – Used for Environmental Sensor or chaining to previous PDU.
- **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.

- 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 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.
- **N** Ground Stud Used to ground the PDU.

TECHNICAL SPECIFICATIONS - 30A MODELS

Model Name	PDU81023 PDU71023 PDU41023 PDU31023	PDU81027 PDU71027 PDU41027 PDU31027	PDU81028 PDU71028 PDU41028 PDU31028	PDU81029 PDU71029 PDU41029 PDU31029	PDU81030 PDU71030 PDU41030 PDU31030	
Input						
Nominal Voltage	100 - 120 V 200 - 240 V					
Frequency			50 / 60Hz			
Maximum Input Current			24A UL (Derated)			
Plug Type	NEMA L5-30P		NEMA	L6-30P		
Power Cord Type			SR (10 AWG)			
Power Cord Length			12 ft / 3.65 m			
Output						
Nominal Voltage	100 - 120 V		200 -	240 V		
Maximum Output Current		24A U	L (Derated) / 20A pe	er bank		
Number of Banks			2			
Outlet Type	NEMA 5-20R	IEC C13	12 IEC C13/ 4 IEC C19	IEC	C19	
Number of Outlets	1	6	12 + 4	10	8	
Circuit Breaker			Yes			
Management and C	ommunications					
Multifunction LCD Readout	Volta	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 x 17.05	5 x 8.45 in. / 44 x 433	3 x 215 mm		
Environmental						
Humidity		0 1	to 95% Non-condens	ing		
Altitude			11,480 ft / 3,500 m			
Temperature		32°F	to 140° F / 0° C to 6	60° C		
Safety Approvals						
Certifications		U	L 62368-1 /FCC Class	A		

All specifications are subject to change without notice.

PRODUCT FEATURES - 32A MODELS

Front Panel Description

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 (eg. load or environment status).
- **D** Circuit Breaker Provides overload protection.
- Environmental Sensor/ Daisy Chain (In) Port (RJ45 modular port) - Used for Environmental Sensor or chaining to previous PDU.
- **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.

- 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 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.
- **N** Ground Stud Used to ground the PDU.

TECHNICAL SPECIFICATIONS - 32A MODELS

Model Name	PDU81327 PDU71327 PDU41327 PDU31327	PDU81328 PDU71328 PDU41328 PDU31328	PDU81329 PDU71329 PDU41329 PDU31329	PDU81330 PDU71330 PDU41330 PDU31330	
Input					
Nominal Voltage		200 -	240 V		
Frequency		50 /	60Hz		
Maximum Input Current		32A	CE		
Plug Type		IEC-309 Blu	e 230V 32A		
Power Cord Type		SR (10	AWG)		
Power Cord Length		12 ft /	3.65 m		
Output					
Nominal Voltage		200 -	240 V		
Maximum Output Current		32A CE / 20	DA per bank		
Number of Banks		2			
Outlet Type	IEC C13	12 IEC C13/ 4 IEC C19	IEC	C19	
Number of Outlets	16	12 + 4	10	8	
Circuit Breaker		Ye	es		
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 (H x W x D)		1.75 x 17.05 x 8.45 in.	/ 44 x 433 x 215 mm		
Environmental					
Humidity		0 to 95% Nor	n-condensing		
Altitude		11,483 ft /	′ 3,500 m		
Temperature		32°F to 131° F ,	/ 0° C to 55° C		
Safety Approvals					
Certifications		UL 62368-1 / CE / EN	I55032 / FCC Class A		

All specifications are subject to change without notice.

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 Mounting Brackets (2) to the PDU.

If you plan on attaching the Cord Retention Tray to the PDU, use the provided Mounting Bracket Screws (8) to attach the mounting brackets (2) to the PDU, as shown below (right).



Step 2. Cord Retention Tray Installation (optional)

Adjust the length of the Cord Retention Tray until the screw holes on the Tray align with the screw holes on the rear of the PDU. 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.



Installation - 1U Models

Step 3. 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.



Step 4. Cord Retention Tray Installation (optional)

Adjust the length of the Cord Retention Tray until the screw holes on the tray align with the screw holes on the front of the PDU. Attach the Cord Retention Tray to the PDU using the 4 supplied Cord Retention Tray mounting screws. Finally, tighten the Cord Retention Tray with the screw on it.



Installation - 1U Models

Step 5. Cable Ties (Optional)

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.



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 192.168.20.177.

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.
- 2. Open the Power Device Network Utility 2 and select the PDU device from the list. Click "Connection" on the top tools list to start configuring the IP address.
- 3. Enter the user name and password of the PDU device at the Authentication menu.
- 4. Configure the IP Address, Subnet Mask, and Gateway Address to match your network settings.

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: 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 -l 123" then press **Enter**. If the replies are received, your computer can communicate with the IP address

Option 4: Hyper Terminal or Terminal Emulator

- 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 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.

Local Management

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.

A. Scroll Mode:

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

Device Information

Bank 1 Information

Bank 2 Information

Environment Status (Displays when the Environmental Sensor is connected)

Alert

B. Main Menu Map

Alort	Current	
Alert	Log	
	Device	
Meter	Bank	
	Outlet	
	Device	Immediate On
	Device	Delay On
Control	Paply 1/2	Immediate Off
Control		Delay Off
	Outlot 1 N	Reboot
		Delay Reboot
		Color
		Brightness
		Direction
		Screen Off
Setting	Reset	Account (User Name and Password)
		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
	Green	ОК
Status	Orange	Warning
	Red	Critical
	Off	Power Off
- (5	On (Green)	Power On
Ix/Rx		Receiving/transmitting data packet
	Flashing	Reset Finished
	On	Indicates the PDU is connected to the LAN
LINK	Off	Indicates the PDU is not connected to the LAN
	On (Green)	Outlet On and status OK
	Off	Outlet Off
Outlet	Yellow*	Low Load
	Orange*	Near Overload
	Red*	Overload

*For Metered by Outlet Series only.

Environmental Monitoring (optional)

CyberPower PDUs along with the environmental sensor provide temperature and humidity monitoring in a server closet and/or datacenter remotely. To connect the PDU with environmental sensor, use the RJ45 Ethernet Cable included with the environmental sensor. Plug one end into the Daisy Chain (In)/environmental sensor port on the PDU and the other end into the RJ45 port on the environmental sensor (as shown in figure below). When the PDU correctly connects to the environmental sensor, users can see the temperature and humidity data via the Web Interface. For further information regarding environmental sensor 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 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 on every computer or server that will be part of the shutdown process (Follow the instructions in the PowerPanel[®] Business User Manual).
- 2. Configure the settings in PowerPanel[®] Business. See the PowerPanel Business[®] 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 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:

- cpsmpdumadata_XXX.bin
- cpsmpdumafw_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.
- 2. 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 cpsmpdumadata_XXX.bin, type
 - ftp > bin
 - ftp > cpsmpdumadata_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 cpsmpdumafw_XXX.bin, type
 - ftp > bin
 - ftp > put cpsmpdumafw_XXX.bin
- 8. Upgrade complete, type
 - ftp > quit
- 9. The system will reboot after you type "quit".

Option 2: Single or Multiple Device Upgrade (recommended)

Use the following steps to upgrade the firmware.

- 1. Install the CyberPower Power Device Network Utility 2 available for download at www.CyberPower.com.
- 2. After installation completes, run the "Power Device Network Utility 2".
- 3. The main window of the Power Device Network Utility 2 program is shown in Figure 1. The configuration tool will display all CyberPower Remote Management devices present on the local network subnet. The "Scan" button is used to search the local network subnet again.

	0	+ ±	\$ 8 -	Upload Firmware	Upload Configuration		
D \$		Type © PDU •	MAC Address 🗘	Version Acco	unt IP Address	DHCP 0	Time 0
•	•	🛅 PDU	00:0C:15:40:50:6C	1.3.1.0	192.168.202.70	true	2023-08-25 10
	0 🖬	💼 PDU	00:0C:15:40:50:4C	1.3.0.0	@ 192.168.202.40	true	2023-08-25 10
	•	💼 PDU	00:0C:15:01:56:89	0.8.9.0	@ 192.168.202.60	true	2023-08-25 10
	•	🛅 PDU	00:0C:15:40:43:CB	2.2.0.0	192.168.202.208	false	2023-08-25 10
	۰ 🗆	🛅 PDU	00:0C:15:40:A6:01	1.1.0.0	192.168.202.207	false	2023-08-25 10
	o 🖬	🛅 PDU	00:0C:15:01:99:A1	1.3.1.0	192.168.202.43	true	2023-08-25 10

Figure 1

Firmware Upgrade

4. Check the boxes to select the devices you wish to upgrade, and click "Connection" on the top tools list to enter the device user account and password (shown in Figure 2). Once the connection is confirmed, the status icon next to the IP Address will change from grey to green. **Note:** You must connect to the device by entering user account and password credentials before firmware upgrades.

Connection Information	
Account	
Password	
	Save Cancel

Figure 2

- Select the devices you wish to upgrade by checking their respective checkbox and select "Upload Firmware".
 Note: You can upload the firmware of multiple devices that use the same firmware files.
- 6. Select the Firmware and Data files and click "OK" to implement firmware upgrade, as shown in Figure 3.

File Locations of Firmware & Data	
Firmware	
cpsmpdumafw_131.bin	Browse
Data	
cpsmpdumadata_131.bin	Browse
ок	Cancel

Figure 3

7. Once the firmware upgrade is implemented, you will see the Result in the main window, as shown in Figure 4.

	Type 0 PDU +	MAC Address 0	version 0	Account 0	IP Address ©	DHCP 0 All +	Time 0	Result 0 Al ·	ирт №
0	in 100	00.00.1540.72.29	1.3.0.0		0 192,168,202,93	false	2023-06-25 10:06:14	power device search successful	6
0	E POU	00:00:15x82:50:60	1.3.1.0		0 192.168.202.70	true	2023-06-25 10:06:14	power device search successful	0
•	E POU	00:0C15x42:50x4C	1.3.1.0	cyber	0 192,168,202.40	true	2023405-25 10:14:23	power device firmware upgrade successful	0
0	E POU	00:00:15:01:56:89	0.8.9.0		0 192,168,202.60	orue	2023-06-25 10:06:14	power device search successful	0
0	ta 100	00.0C15:42:43:CB	2.2.0.0		0 192,168,202,208	false	2023-06-25 10:06:14	power device search successful	0
0	ta POU	00.0015x82x6x01	1.1.0.0		0 192.168.202.207	false	2023-08-25 10:06:14	power device search successful	0
•	E POU	00.00:15:01:99:A1	1.3.1.0	cyber	0 192.168.202.43	true	2023-06-25 10:14:19	power device firmware upgrade successful	0

Figure 4

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 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.



4. Select **USB** and press **Enter** button to enter **Firmware Upgrade** menu.

USB	Main	USB	USB
Firmware	Firmware	Firmware	Firmware
Upgrade	Upgrade	Upgrade	Upgrade
Main	Confirm?	Processing	Success
Return	Yes		
	No		

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. You can also check Firmware Version on LCD screen. Press Enter on the LCD screen to enter Main menu. Select About and press Enter to see the PDU information. Select Firmware Version to check the PDU Firmware Version.

Firmware Upgrade

Option 4: Use Secure Copy (SCP) command

Use the following steps to update the firmware via SCP.

Note: Only firmware version 1.10 and above supports the functionality to update firmware via SCP.

For Windows Users:

- 1. Download any PuTTY Secure Copy client (PSCP) utility.
- 2. Save the firmware files and the PSCP Utility in the same folder.
- 3. Open the Command Line Interface and change the path to where the firmware files and the PSCP Utility are saved.
- 4. Enter the following command to perform the firmware update:

pscp -scp <filename> <user>@<IP address of PDU>:
Note:

(1) The SSH setting on the PDU must be Enabled.

(2) <filename> is the filename of the firmware file. There are two firmware files to upload:

cpsmpdumadata_XXX. bin and cpsmpdumafw_XXX.bin. In order to upgrade the firmware version both files need to be uploaded.

Only one firmware file can be uploaded at a time, it is recommended to upload the data file

cpsmpdumadata_XXX.bin first followed by the firmware file cpsmpdumafw_XXX.bin.

(3) <u
ser> is the username of the SSH account on the PDU.

(4) Ensure to add ":" after the IP address.

- 5. After executing the command, a message may appear asking if you trust the host. To continue type "y" for yes within 10 seconds.
- 6. On the next screen enter the PDU password. Please wait until the progress indicator displays 100%. The system will automatically log out and reboot after the transfer is complete.
- 7. Repeat steps 4 through step 6 to upload the firmware file cpsmpdumafw_XXX.bin to complete the firmware update process.
- 8. If the firmware file transfer is unsuccessful you will see an error message. Attempt to retype the command and execute it again.

For Linux, MacOS and Unix Users:

- 1. Install the related distribution of an SSH or SCP client, for example Openssh client.
- 2. Open the Terminal and change the path to where the firmware files are saved.
- 3. Enter the following command to perform the firmware update:

- pscp -scp <filename> <user>@<IP address of PDU>:

Note:

(1) The SSH setting on the PDU must be Enabled.

(2) <filename> is the filename of the firmware file. There are two firmware files to upload: cpsmpdumadata_ XXX. bin and cpsmpdumafw_XXX.bin. In order to upgrade the firmware version both files need to be uploaded. Only one firmware file can be uploaded at a time, it is recommended to upload the data file cpsmpdumadata_XXX.bin first followed by the firmware file cpsmpdumafw_XXX.bin.

(3) <u
ser> is the username of the SSH account on the PDU.

(4) Ensure to add ":" after the IP address.

For example:

scp cpsmpdumafw_XXX.bin cyber@192.168.1.100:

Note: cpsmpdumafw_XXX.bin is the firmware file of the version being updated.

- 4. After executing the command, a message may appear asking if you trust the host. To continue type "y" for yes within 10 seconds.
- 5. On the next screen enter the PDU password. Please wait until the progress indicator displays 100%. The system will automatically log out and reboot after the transfer is complete.
- 6. Repeat steps 3 through step 5 to upload the firmware file cpsmpdumafw_XXX.bin to complete the firmware update process.
- 7. If the firmware file transfer is unsuccessful you will see an error message. Attempt to retype the command and execute it again.

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.

TROUBLESHOOTING

CONFORMANCE APPROVALS



FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 of 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 to 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. Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Compliance Statement CAN ICES-3 (A)/NMB-3(A)

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

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).

Cyber Power International

Feel free to contact our Tech Support department with installation, troubleshooting, or general product questions.

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Where Can I Get More Information?

The application of the United Nations Convention of Contracts for the International Sale of Goods is expressly excluded. CyberPower is the warrantor under this Limited Warranty.

For further information please feel free to contact CyberPower at: Cyber Power Systems (USA), Inc. 4241 12th Ave E., STE 400, Shakopee, MN 55379; Call us at **(877) 297-6937**; or submit a web ticket online at **cyberpowersystems.com/support**.

WARNING: This product can expose you to chemicals including bisphenol A (BPA) and styrene, which is known to the State of California to cause reproductive harm and cancer. For more information, go to www. P65Warnings.ca.gov.

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: 8
- Parity: None
- Stop 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

- 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:PDU41002
- 4. Contact: Administrator
- 5. 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 2

Overview

The CyberPower Power Device Network Utility 2 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 2 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).

🛃 Setup - CyberPower PDNU2 2.1.2 — 🗆 🗙							
Select Destination Directory Where should CyberPower PDNU2 be installed?							
Select the folder where you would like CyberPower PDNU2 to be in Next.	nstalled, th	nen click					
C:\Program Files\pdnu2]	Browse					
Required disk space: 152 MB							
Free disk space: 88 GB							
cyberpower	Next >	Cancel					

Figure 2

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



Figure 3

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

🛃 Setup - CyberPower PDNU2 2.1.2 —				\times
	Completing the CyberPower	PDNU2 S	Setup W	izard
	Setup has finished installing CyberPt The application may be launched by Click Finish to exit Setup.	ower PDNU2 selecting the	on your c	omputer. icons.
				Finish

Figure 4

Launch Program

To launch the Power Device Network Utility 2 and get started, select Programs from the Start menu in Windows and locate the new folder and icons for Power Device Network Utility 2. Select Power Device Network Utility 2 from the program folder.

APPENDIX B - POWER DEVICE NETWORK UTILITY 2

Getting Started

The Power Device Network Utility 2 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 5).

= PDNU Device (25) _{v2.1.2}							
m	00+4	🛓 🗞 🖌 📋 Upload	Firmware Upload Configuration				
ອ ¢	Type ©	MAC Address Version	Account IP Address	DHCP ©	Time 0		
0	0 🗌 🛅 PDU	00:0C:15:40:50:6C 1.3.1.0	• 192.168.202.70	true	2023-08-25 10:0		
	💿 🗹 🛅 PDU	00:0C:15:40:50:4C 1.3.0.0	192.168.202.40	true	2023-08-25 10:0		
	O DU	00:0C:15:01:56:89 0.8.9.0	192.168.202.60	true	2023-08-25 10:0		
	 PDU PDU 	00:0C:15:40:43:CB 2.2.0.0	 192.168.202.208 192.168.202.207 	false	2023-08-25 10:0		
	💿 🗹 🛅 PDU	00:0C:15:01:99:A1 1.3.1.0	• 192.168.202.43	true	2023-08-25 10:0		
		50 💌	heare	C	yberPower		

Figure 5. 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.

Step 2. Authentication

Enter the user name and password of the PDU device at the Authentication menu (Shown in Figure 6).

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

Connection Information	
Account	
Password	
	Save Cancel

Figure 6. Authentication Menu

Step 3. Assign a valid IP Address to the PDU

With the appropriate device selected from the Equipment List, open the Device Network Settings menu by clicking on the tool button. In the Device Network Setting Menu, enter a valid IP address, subnet mask, and gateway address to setup the PDU device. (Shown in Figure 7)

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

Device Net	worl	< Setting	gs			
[Device	MAC Add	ress: 00:0	0C:15:40):50:4C	
Using DHCP						
🗌 Yes ၊ O No)					
IP Address						
192.168.202.	40					
New IP Addre	SS					
192		168		202	. 40	

Figure 7. Device Network Settings

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 (v1.08 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).

Note: Make sure to use straight through cables to perform the daisy-chain function.



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
	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).

PDU Remote Ma	anagement	Administrator login from 192.1 Summary PDU	68.26.168 ≩ [Logout] Envir Log System Help	Cyber Power
Status Device Outlet Manager Outlet Action Daisy Chain Wake on Lan	Device Status Load Device Load Power Factor Peak Load Energy Utility	0.00 A/ 0 W/ 0 VA 0.00 A 0.0 kWh	(at 2017/06/26 16:30:43) (from 2017/06/26 16:30:43)	
EnergyWise PowerPanel [®] List	Voltage Frequency	105.1 V 60.0 Hz		

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. 	Check the firmware version of each PDU and upgrade it to v1.08 or above.
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

Appendix D - RJ45/ DB9 Serial Port Connection Cable Pinout

Pinout of RJ45 plug and DB9 socket provided in package are shown below.

