Cyber Power

Automatic Transfer Switch



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Overview

CyberPower Automatic Transfer Switches PDUs with dual input for power provide redundant and increased reliability for critical devices with a single power plug. Users can define the preferred input power source. When a selected source is unstable or unavailable, the ATS PDU will switch to the second power source to constantly provide power to connected devices. The entire ATS PDU series are designed with LED and LCD interfaces for users to easily observe power status and device load. On-site power management is accomplished as users can configure power settings, via LCD interface, according to local power condition. Available in both switched and metered/ monitored configurations, users have a broad base of options to select the ATS PDU that best fits their needs.

WARNING: This automatic transfer switch has dual power cords (A & B) to provide redundant power sources to devices with single power supplies and can be plugged into separate compatible sources* to ensure continuous access. Users select the preferred source as the primary input. CyberPower Smart App Online and Sinewave series UPS are highly recommended for use as the power source.

*Note: Only sine wave AC power sources are compatible with this ATS PDU. Simulated sine wave AC power sources are NOT compatible.

Model List

Switched Series	Metered/Monitored Series
10	10
PDU15SW10ATNET	PDU15M10AT
PDU20SW10ATNET	PDU20M10AT
PDU20SWT10ATNET	PDU20MT10AT
PDU20SWHVT10ATNET	PDU20MHVT10AT
PDU15SWHVIEC12ATNET	PDU15MHVIEC12AT
PDU20SWHVIEC10ATNET	PDU20MHVIEC10AT
PDU20SWHVCEE10ATNET*	PDU20MHVCEE10AT*
2U	2U
PDU30SWT17ATNET	PDU30MT17AT
PDU30SWHVT19ATNET	PDU30MHVT19AT
PDU32SWHVCEE18ATNET*	PDU32MHVCEE18AT*

*Selected models may not be available in certain regions. Please contact your CyberPower sales team for more information.

Safety Precautions

Read the following before installing or operating the Automatic Transfer Switches (ATS) PDU:

- Use only the supplied hardware to attach the mounting brackets.
- The ATS PDU must be plugged into a single phase three-wire, grounded outlet on a circuit that is protected by a fuse or circuit breaker. For PDU15xxxxx series, please use a 15A circuit protector. For PDU20xxxxx series, please use a 20A circuit protector. For PDU30xxxxx series, please use a 30A circuit protector. Connection to any other type of power outlet may result in a electrocution hazard.
- Do not use extension cords or adapters with these ATS PDUs.
- Never install an ATS PDU or associated wiring or equipment during a lightning storm.
- Ensure that the power cord, plug, and socket are in good condition.

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



Before using, please check to ensure the package contains all the items shown below. If there are missing parts, please contact your local CyberPower sales team for technical support.

Product Contents

For 1U Models



ATS PDU



Mounting Bracket x 2



Cord Retention Tray

0000

or or or or

6 (M5x12) Rack Mounting Screws/ 6 Washers (Includes two spares for each)



RJ45/DB9 Serial Port Connection Cable



24 (M4x8) Bracket Mounting Screws (Includes eight spares)



4 (M3x4) Cord Retention Tray Mounting Screws

Ϊ

Cable Ties Qty.: 18 (NEMA Outlet) Qty.: 30 (IEC Outlet)

Jumper (Switched type only)



User's Manual, Registration & Software Download Cards

Below items only provided with IEC type ATS PDU



Power Cord 10 feet IEC-320 C13/C14 x 2 (PDU15SWHVIEC12ATNET/ PDU15MHVIEC12AT Model Only)



Power Cord 10 feet IEC-320 C19/C20 x 2 (PDU20SWHVIEC10ATNET/ PDU20MHVIEC10AT Model Only)

Product Contents

For 2U Models



ATS PDU



Mounting Bracket x 2



Cord Retention Tray X 2





6 (M5x12) Rack Mounting Screws/ 6 Washers (Includes two spares for each)



RJ45/DB9 Serial Port Connection Cable



24 (M4x8) Bracket Mounting Screws (Includes eight spares)



8 (M3x4) Cord Retention Tray Mounting Screws

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Cable Ties Qty.: 30 (NEMA Outlet) Qty.: 50 (IEC Outlet)

R

Jumper (Switched type only)



User's Manual, Registration & Software Download Cards



Front/Rear Panel Description (1U 15A Models)

	© 0 0 0 0 0
Equation Port Inues tell? Conclusion	

NEMA Type



- A. SNMP/HTTP Network Slot
- Allows users to remotely control and monitor the ATS PDU when installed with CyberPower's Remote Management Card.
- Serial Port (RJ45 modular port) В.
- Use serial port to connect with PC and execute local control of the ATS PDU. Source Indicator С
- Indicates Source A or B is in use. When both sources are normal, selected source shows constant green LED while another source shows blinking green LED.
- D. Output Indicator
- Indicates load condition of the ATS PDU.
- Multifunction LCD Readout E.
- Displays various ATS PDU information such as power and load conditions. F. Select Button
- Use to control the LCD screen and toggle through the available informational options. Enter Button G.
- Use to choose selected items, enter to next level menu or return to previous menu.
- AC Inlet/AC Power Cord Η.
- Use to connect ATS PDU to utility power or UPS.
- ١. Ground Stud
- Use to ground the ATS PDU. AC Output Receptacles J.
- Provides power distribution for connected equipment.
- Outlet Indicator (switched series only) K.
- When the LED is on, the outlet is providing power to connected equipment.

Technical Specifications

	Swite	Switched Series		Metered Series		
Model Name	PDU15SW10ATNET	PDU15SWHVIEC12ATNET	PDU15M10AT	PDU15MHVIEC12AT		
Input						
Nominal Voltage	100-120V	200-240V	100-120V	200-240V		
Frequency		50/60Hz				
Derated Input Current	12A	12A(UL)/10A(CE)	12A	12A(UL)/10A(CE)		
Plug Type	(2) NEMA 5-15P	(2) IEC-320 C14	(2) NEMA 5-15P	(2) IEC-320 C14		
Power Cord Type	SR (14 AWG)	Socket	SR (14 AWG)	Socket		
Power Cord Length		10 ft/3.05	m			
Output						
Nominal Voltage	100-120V	200-240V	100-120V	200-240V		
Derated Output Current	12A	12A(UL)/10A(CE)	12A	12A(UL)/10A(CE)		
Outlet Type	NEMA 5-15R	IEC-320 C13	NEMA 5-15R	IEC-320 C13		
Outlet Number	10	12	10	12		
Transfer Time	Typical: 8-12ms 16ms max @ 60Hz/ 18ms max @ 50Hz					
Management and Communic	cations					
Multifunction LCD Readout	Voltage, Freque	ncy, Load, Current, HW/F	W Version, Net	work Information		
Software		PowerPanel* Busine	ess Edition			
SNMP/ HTTP Capable	Yes, with RMCARD Yes, with optional RMCARD					
Connectivity		RJ45 (Serial F	Port)			
Sensor Capable		Optional				
Physical						
Dimension (W x H x D)	17.05" x 1.75" x 9.3"/433mm x 44mm x 236mm			mm		
Environmental						
Humidity	0 to 95% Non-condensing					
Altitude	13100 ft/4000 m					
Temperature	32°F to 113°F/0°C to 45°C					
Safety Approvals						
Certifications	UL 60950-1 FCC Class A	UL 60950-1 CE, FCC Class A	UL 60950-1 FCC Class A	UL 60950-1 CE, FCC Class A		

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* All specifications are subject to change without notice.

Front/Rear Panel Description (1U 20A Models)

0	6		•	9	•
Expansion Port Provides State? Card Communication	Serial Port	I	30x700 Conput AO BO BO CON 400000	CyberPo Revel Doctal PDU20SWT10	
NEMA Type					



- A. SNMP/HTTP Network Slot
- Allows users to remotely control and monitor the ATS PDU when installed with CyberPower's Remote Management Card.
- B. Serial Port (RJ45 modular port)
- Use serial port to connect with PC and execute local control of the ATS PDU. C. Souce Indicator
- Indicates Source A or B is in use. When both sources are normal, selected source shows constant green LED while another source shows blinking green LED.
- D. Output Indicator
- Indicates load condition of the ATS PDU.
- E. Multifunction LCD Readout
- Displays various ATS PDU information such as power and load conditions. F. Select Button
- Use to control the LCD screen and toggle through the available informational options. G. Enter Button
- Use to choose selected items, enter to next level menu or return to previous menu.
- H. AC Inlet/AC Power Cord
- Use to connect ATS PDU to utility power or UPS.
- I. Ground Stud
- Use to ground the ATS PDU. J. AC Output Receptacles
- Provides power distribution for connected equipment.
- K. Outlet Indicator (switched series only)
- When the LED is on, the outlet is providing power to connected equipment.

Technical Specifications

	Swite	ched Series	Mete	Metered Series	
	PDU20SW10ATNET	PDU20SWHVT10ATNET	PDU20M10AT	PDU20MHVT10AT	
Model Name		PDU20SWHVCEE10ATNET		PDU20MHVCEE10AT	
	PDU20SWT10ATNET	PDU20SWHVIEC10ATNET	PDU20MT10AT	PDU20MHVIEC10AT	
Input			·		
Nominal Voltage	100-120V	200-240V	100-120V	200-240V	
Frequency		50/60Hz			
Derated Input Current		16A			
	(2) NEMA 5-20P	(2) NEMA L6-20P	(2) NEMA 5-20P	(2) NEMA L6-20P	
Plug Type		(2) IEC 309 16A		(2) IEC 309 16A	
	(2) NEMA L5-20P	(2) IEC-320 C20	(2) NEMA L5-20P	(2) IEC-320 C20	
Power Cord Type	SR (12AWG)	SR (12AWG)	SR (12 AWG)	SR (12AWG)	
Power Cord Type	SR (IZAWG)	Socket	SR (IZ AWG)	Socket	
Power Cord Length		10 ft/3.05 r	n		
Output					
Nominal Voltage	100-120V	200-240V	100-120V	200-240V	
		C13: 12A (UL)		C13: 12A (UL)	
Derated Output Current	16A	10A (CE)	16A	10A (CE)	
		C19: 16A		C19: 16A	
Outlet Type	NEMA 5-20R	(8) IEC C13	NEMA 5-20R	(8) IEC C13	
outlet type		(2) IEC C19		(2) IEC C19	
Outlet Number	10	8+2	10	8+2	
Transfer Time		Typical: 8-12ms 16ms max @ 60Hz/ 18ms max @ 50Hz			
		16ms max @ 60Hz/ 18m	s max @ 50Hz		
Management and Commun	1				
Multifunction LCD Readout	Voltage, Frequency, Load, Current, HW/FW Version, Network Information				
Software		PowerPanel* Busine	ss Edition		
SNMP/ HTTP Capable	Yes, w	ith RMCARD		ith optional 1CARD	
Connectivity		RJ45 (Serial P	Port)		
Sensor Capable		Optional			
Physical					
Dimension (W x H x D)	17	.05" x 1.75" x 9.3"/433mm	x 44mm x 236m	m	
Environmental					
Humidity		0 to 95% Non-con	densing		
Altitude	13100 ft/4000 m				
Temperature	32°F to 113°F/0°C to 45°C				
Safety Approvals					
		UL 60950-1		UL 60950-1	
Certifications	UL 60950-1	FCC Class A	UL 60950-1	FCC Class A	
Certifications	FCC Class A	UL 60950-1	FCC Class A	UL 60950-1	
		CE, FCC Class A		CE, FCC Class A	

* All specifications are subject to change without notice.

Front/Rear Panel Description (2U 30A Models)



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SNMP/HTTP Network Slot A.

- Allows users to remotely control and monitor the ATS PDU when installed with CyberPower's Remote Management Card. Serial Port (RJ45 modular port) Use serial port to connect with PC and execute local control of the ATS PDU. B.
- C Source Indicator
- Indicates Source A or B is in use. When both sources are normal, selected source shows constant green LED while another source shows blinking green LED. Output Indicator D.
- F
- Indicates load condition of the ATS PDU. Multifunction LCD Readout Displays various ATS PDU information such as power and load conditions. Select Button
- F. Use to control the LCD screen and toggle through the available informational options.
- G. Enter Button
- Use to choose selected items, enter to next level menu or return to previous AC Inlet/AC Power Cord Use to connect ATS PDU to utility power or UPS. AC Output Receptacles Provides power distribution for connected equipment. Outlet Indicator (switched series only)
- Н.
- ١.
- J. When the LED is on, the outlet is providing power to connected equipment. Circuit Breaker Provides output overload protection. K.
- Ground Stud
- L. Use to ground the ATS PDU.

Technical Specifications

	Switched Series Metered Serie			d Series
Model Name	PDU30SWT17ATNET	PDU30SWHVT19ATNET	PDU30MT17AT	PDU30MHVT19AT
Input				
Nominal Voltage	100-120V	200-240V	100-120V	200-240V
Frequency		50/60H	Z	
Derated Input Current		24A		
Plug Type	(2) NEMA L5-30P (2) NEMA L6-30P (2) NEMA L5-30P (2) NE			(2) NEMA L6-30F
Power Cord Type		SR (10 AW	/G)	
Power Cord Length		10 ft/3.05	m	
Output				
Nominal Voltage	100-120V	200-240V	100-120V	200-240V
Derated Output Current	5-20R: 16A L5-30R: 24A	C13: 12A C19: 16A L6-30R: 24A	5-20R: 16A L5-30R: 24A	C13: 12A C19: 16A L6-30R: 24A
Derated Output Current (each bank)	20A			
Bank Number		2		
Outlet Type	(16) NEMA 5-20R (1) NEMA L5-30R	(16) IEC C13 (2) IEC C19 (1) NEMA L6-30R	(16) NEMA 5-20R (1) NEMA L5-30R	(16) IEC C13 (2) IEC C19 (1) NEMA L6-30R
Outlet Number	17	19	17	19
Circuit Breaker		Yes		
Transfer Time		Typical: 8-1 16ms max @ 60Hz/ 18r		
Management and Commu	nications			
Multifunction LCD Readout	Voltage, Freque	ncy, Load, Current, HW/	FW Version, Netwo	ork Information
Software		PowerPanel* Busir	ess Edition	
SNMP/ HTTP Capable	Yes, with RMCARD Yes, with optional RMCARD		•	
Connectivity		RJ45 (Serial Port)		
Sensor Capable	Optional			
Physical				
Dimension (W x H x D)	17.	05" x 3.5" x 9.3"/433mm	n x 88mm x 236mr	n
Environmental				
Humidity		0 to 95% Non-co	ondensing	
Altitude	13100 ft/4000 m			
Temperature	32°F to 113°F/0°C to 45°C			
Safety Approvals				
Certifications		UL 60950-1, FC	C Class A	

All specifications are subject to change without notice.



Front/Rear Panel Description (2U 32A Models)



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- A. SNMP/HTTP Network Slot Allows users to remotely control and monitor the ATS PDU when installed with CyberPower's Remote Management Card.
 B. Serial Port (RJ45 modular port) Use serial port to connect with PC and execute local control of the ATS PDU.
 C. Source Indicator Indicates Source A or B is in use. When both sources are normal, selected source shows constant green LED while another source
- selected source shows constant green LED while another source shows blinking green LED.
- D. Output Indicator
- Indicates load condition of the ATS PDU. E. Multifunction LCD Readout Displays various ATS PDU information such as power and load conditions
- F. Select Button Use to control the LCD screen and toggle through the available informational options.
- G. Enter Button Use to choose selected items, enter to next level menu or return to
- previous menu. H. AC Inlet/AC Power Cord Use to connect ATS PDU to utility power or UPS.
- I. AC Output Receptacles
- Provides power distribution for connected equipment. J. Outlet Indicator (switched series only)
- When the LED is on, the outlet is providing power to connected equipment. K. Circuit Breaker
- Provides output overload protection. L. Ground Stud
- Use to ground the ATS PDU.

Technical Specifications

	Switched Series	Metered Series				
Model Name	PDU32SWHVCEE18ATNET	PDU32MHVCEE18AT				
Input						
Nominal Voltage	200-2	200-240V				
Frequency	50/6	OHz				
Max. Input Current	32	A				
Plug Type	(2) IEC 3	09 32A				
Power Cord Type	SR (10	AWG)				
Power Cord Length	10 ft/3	.05 m				
Output						
Nominal Voltage	200-2	240V				
	C1	3: 10A				
Derated Output Current	CI	9: 16A				
Derated Output Current	20	A				
(each bank)						
Bank Number	2					
Outlet Type	(16) IEC C13					
	(2) IEC C19					
Outlet Number	18					
Circuit Breaker	Yes					
Transfer Time	Typical: 8-12ms 16ms max @ 60Hz/ 18ms max @ 50Hz					
Management and Communic						
Multifunction LCD Readout	Voltage, Frequency, Load, Current, H	W/FW Version, Network Information				
Software	PowerPanel® Bu	isiness Edition				
		Yes, with optional				
SNMP/ HTTP Capable	Yes, with RMCARD	RMCARD				
Connectivity	RJ45 (Sei					
Sensor Capable	Optic					
Physical	opa	5 nai				
Dimension (W x H x D)	17.05" x 3.5" x 9.3"/4331	mm x 88mm x 236mm				
Environmental						
Humidity	0 to 95% Non	-condensing				
Altitude	13100 ft/4000 m					
Temperature	32°F to 113°F/0°C to 45°C					
Safety Approvals						
Certifications	CE. FCC	Class A				
	02,100					

* All specifications are subject to change without notice.

ATS PDU Configuration

WARNING: This automatic transfer switch has dual power cords (A & B) to provide redundant power sources to devices with single power supplies and can be plugged into separate compatible sources* to ensure continuous access. Users select the preferred source as the primary input. CyberPower Smart App Online and Sinewave series UPS are highly recommended for use as the power source.

*Note: Only sine wave AC power sources are compatible with this ATS PDU. Simulated sine wave AC power sources are NOT compatible.

Best Configuration



Minimum Acceptable Configuration





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

Front Mounting

For 1U Models

- Step 1. Mounting Bracket Installation
 - Use the provided Mounting Bracket Screws (16) to attach the Mounting Brackets (2) to the ATS PDU.



Step 2. Cord Retention Tray Installation (optional)

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



Step 3. ATS PDU Mounting

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

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



Front Mounting

Step 4. Cable Ties (Optional)

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



For 2U Models

Step 1. Mounting Bracket Installation Use the provided Mounting Bracket Screws (16) to attach the Mounting Brackets (2) to the ATS PDU.



Step 2. Cord Retention Tray Installation (optional) Adjust the length of the Cord Retention Trays till the screw hole on the Trays and ATS PDU are aligned. Attach the Cord Retention Trays to the ATS PDU with the 8 supplied Cord Retention Tray Mounting Screws. Tighten the Cord Retention Trays with the screw on it.



Front Mounting

Step 3. ATS PDU Mounting

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

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



Step 4. Cable Ties (Optional) Use the provided Cable Ties to fasten each cord to the Cord Retention Tray.



Rear Mounting

For 1U Models

Step 1. Mounting Bracket Installation Use the provided Mounting Bracket Screws (16) to attach the Mounting Brackets (2) to the ATS PDU.





Rear Mounting

If you plan on attaching the Cord Retention Tray to the ATS PDU, use the provided Mounting Bracket Screws (8) to attach the Mounting Brackets (2) to the ATS PDU.



Step 2. Cord Retention Tray Installation (optional)

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



Step 3. ATS PDU Mounting

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

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



Rear Mounting

Step 4. Cable Ties (Optional) Use the provided Cable Ties to fasten each cord to the Cord Retention Tray.



For 2U Models

Step 1. Mounting Bracket Installation Use the provided Mounting Bracket Screws (16) to attach the Mounting Brackets (2) to the ATS PDU.



If you plan on attaching the Cord Retention Tray to the ATS PDU, use the provided Mounting Bracket Screws (8) to attach the Mounting Brackets (2) to the ATS PDU.



Rear Mounting

- Step 2. Cord Retention Tray Installation (optional)
 - Adjust the length of the Cord Retention Trays till the screw hole on the Trays and ATS PDU are aligned. Attach the Cord Retention Trays to the ATS PDU with the 8 supplied Cord Retention Tray Mounting Screws. Tighten the Cord Retention Trays with the screw on it.



Step 3. ATS PDU Mounting

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

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



- Step 4. Cable Ties (Optional)
 - Use the provided Cable Ties to fasten each cord to the Cord Retention Tray.





Replacing the LCD Panel

Step 1. Use a slotted screwdriver to gently lift out the LCD panel.



Step 2. Disconnect the cable connector.



Electrical Installation

Step 1. Receptacle evaluation

Ensure that the plug type of your ATS PDU unit matches the receptacles that you are using.

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

Step 2. Plug the ATS PDU into the utility receptacle and/or UPS.

For configuration details, refer to ATS PDU Configuration on page 8.

Step 3. Attach equipment

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



Installation Guide Power Cord Locking - For IEC Type ATS 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.



Network Installation

(Performed when a Remote Management Card is installed)

Step 1. Attach the LAN Cable

- Using a CAT5 RJ45 cable, attach one end to the Ethernet port on the RMCARD, and the other end to a network port.
- Step 2. Establish the ATS PDU IP address

Assigning an IP address to the CyberPower ATS 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 for the DHCP function is on.

There are multiple methods for setting up the IP address of the ATS PDU Please follow the instructions below for the method that is appropriate for your application.

Please make sure the ATS PDU is powered on during this process.

- Option 1 (recommended): Power Device Network Utility
- 1. Download the Power Device Network Utility software available at <u>www.cyberpower.com</u>.
- Highlight the ATS PDU device from the list and select Edit and Setup device => Assisted 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 ATS PDU device at the Authentication menu.
- Note: The default username is "cyber" and the default password is "cyber". For further information and installation instructions, see Appendix B.

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 ATS PDU.
- 4. The ATS 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 ATS PDU.
- 2. Open a command prompt as an administrator and type the following: "arp -s [available IP address] [MAC address of ATS PDU]".
 Example: arp -s 192.168.20.240 00-0C-15-00-00-01 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

- 1. Use the included RJ45/DB9 serial port connection cable, attach one end to the serial port on the front of the ATS 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 ATS PDU device at the Authentication menu.
- 6. Press 4 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.

Operation

Remote Management

The remote management function via the RMCARD205 provides for monitoring of the ATS 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 ATS PDU into a web browser.
- Enter the user name and password of the ATS PDU device at the authentication screen.

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

Telnet and SSH

The CyberPower ATS 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**.

Note: When user logs in with the admin username and admin password through Telnet or SSH, there are two types of interfaces available. One is the command line interface (CLI) and the other is a menu interface. The default is CLI. If the user wants to change to the menu interface, type in the [menumode] command. To switch back to CLI, it is necessary to logout and login to the RMCARD.

SNMP

The CyberPower ATS PDU supports SNMPv1 and SNMPv3 protocols. Download the CyberPower MIB file and add it to a 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. For more details, please see the RMCARD205 User Manual.

Local Management

LCD Operation

The LCD screen provides instant information, such as source condition, voltage and current, for the ATS PDU. In addition, users can use the interface to configure each PDU parameters and control each outlet on the switched ATS PDU.

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

Source A information
Source B information
Device Load
Bank 1 Current (2U series)
Bank 2 Current (2U series)
Bank 3 Current (2U series)
Environment Status (Displays when the ENVIROSENSOR is connected)

B. Main Menu Map

	Hardware Version
About	Firmware Version
JUDGA	Network Information
	Serial Number

	Preferred Source	A/B/None		
		Nominal Voltage		
	Source	Voltage Range		
	Configuration	Freq. Deviation		
		Sensitivity		
			Overload	
			Threshold	
	Load	Device	Near Overload	
	Configuration	Bank/1/2/3	Threshold	
Cattingen			Low Load	
Settings			Threshold	
				Immediate On
				Delay On
	Outlet Control Device All/Outlet 1-N	Immediate Off		
		Bank/1/2/3		Delay Off
				Reboot
				Delay Reboot
		Brightness		
	LCD Settings	Scroll Mode		
		Screen Off		



Operation

Local Management

Reset/Reboot	Reset All (ATS PDU, RMCARD and LCD)
	Reset Except TCP/IP
	Reset Account (User Name and Password)
	Reboot

LED Indicators

Indicator	Status	Description
	Solid Green	Selected source and power condition is normal.
Source	Flashing Green	Backup source and power condition is normal.
	Orange	Power condition is abnormal.
	Green	The aggregate current of each bank is normal.
Load	Orange	Near overload.
	Red	Overload.
	Off	The ATS PDU power is off.
T. /D./	On (Green)	The ATS PDU power is on.
Tx/Rx	Flashing	Receiving/transmitting data packet.
	Flashing	Reset finished.
	On	Indicates the ATS PDU is connected to the LAN.
LINK	Off	Indicates the ATS 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)

The CyberPower ATS PDU with an environmental sensor (ENVIROSENSOR) installed, provides remote temperature and humidity monitoring in a server closet and/or datacenter. To connect ATS PDU with ENVIROSENSOR, use RJ45 Ethernet Cable included with the ENVIROSENSOR. Plug one end into the Universal port on the RMCARD205 and the other end into the RJ45 port on the ENVIROSENSOR (as shown in figures below). When the ATS PDU connected correctly to the ENVIROSENSOR, users can see the temperature and humidity data via the Web Interface.



Device Reset

- To reset all the settings to default locally, use Reset function in the LCD screen.
- 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 connected computer's operating system in an orderly fashion.

PowerPanel must be installed on every computer or server for which the shutdown is to take place. The computer will receive a device status message from the RMCARD205 and will perform the shutdown according to the instructions provided, including shutdowns at exact times and dates. Follow the directions below for setting up Unattended/Automatic Shutdown.

Step 1. Computer Configuration

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

Step 2. ATS PDU Network Configuration

Verify that the IP address of all computers, that will be part of the shutdown process, are included in the Client List of the web interface (Follow the instructions in the PowerPanel Business Edition User Manual).

Step 3. Notification

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

- 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 ATS PDU overload, notification will be sent prior to the ATS PDU shutting down.



By upgrading the Firmware, you can obtain new features, updates and 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.

Note: Please do not turn the ATS PDU off when processing the firmware upgrade. ATS PDU outlets will remain powered on while the firmware update takes place. Only the ATS PDU LCD screen will reboot.

ATS PDU

Update the following file to upgrade the firmware.

- cpsatsmafw_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 <u>www.cyberpower.com</u>.
- 2. Extract the file to "C: $\$ ".
- Open Hyper Terminal to connect the ATS PDU and use the command "@NEW". Note: In order for Hyper Terminal to interact with the ATS PDU, the PC/
 - server must be connected directly to the ATS 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 ATS 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: 38400
 - * Data bits: 8
 - * Parity: None * Stop bits: 1
 - * Flow control: None



4. The ATS PDU will reboot and show main menu on Hyper Terminal.



5. Press "1" to select ATS PDU upgrade.

🍖 test - HyperTerminal	LO X
Bie Edit Yew Gall Transfer Help	
(r	-
= IAP Application (Version 0.0.1) =	
= By ATS Development Team =	
[][Main Menu]	
Download Firmware To the ATS Microprocessor 1	
Download Firmware To the LCD Microprocessor 2	
Execute The Program 3	
1	
Waiting for the file to be sent (press 'a' to abort)	
cccccccccc_	-1
	<u>ا</u>
Connected 0:00:25 Auto detect 115200 8-N-1 SCROLL CAPS MUM Capture Print echo	

6. Select Transfer > Send File.

<u>File E</u> dit ⊻iew <u>C</u> all	Transfer Help	
0 🖻 🍘 🔏 🗉	Send File	
	Receive File	
-	Capture Text	
=	Send Text File	
	Capture to Printer	

7. Note that the Ymodem protocol and file "C:\cpsatsmafw_xxx.bin" are selected in Hyper Terminal.

	?
Folder: C:\temp	
Filename:	
C:\cpsatsmafw_xxx.bin	Browse
Protocol:	
Ymodem	

8. The download progress window will open after you click the Send button.

Sending:	C:\cpsat	mafw_xxx.bin			
Packet	0	Error checking:	CRC	File size:	8K
Retries:	3	Total retries:	3	Files:	1 of 1
Last error:	Unreque	sted response			
File:				OK of 8K	
Elapsed:		Remaining:		Throughput	

9. After uploading the binary file Hyper Terminal will show as below.

Bie Edt Bew Gall Iranifer Beb	
Programming Completed Successfully!	
Name: cpsatsmafw_xxx.bin	
Size: 37576 Bytes	
CyberPowerSystems Inc., RS232 Service Login Name:	
Login nave.	<u>ڪ</u>
Connected 0:00:25 Auto detect 115200 8-N-1 SCROLL CAPS [NUM Capture Print echo	-

LCD

- Update the following file to upgrade the firmware.
- cpsatslafw_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:\".
- Open Hyper Terminal to connect the ATS PDU and use the command "@NEW".
 Note: In order for Hyper Terminal to interact with the ATS PDU, the PC/
 - server must be connected directly to the ATS 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 ATS 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: 38400
 - * Data bits: 8
 - * Parity: None
 - * Stop bits: 1
 - * Flow control: None



4. The ATS PDU will reboot and show main menu on Hyper Terminal.

	<u>_</u> _
= (C) COPYRIGHT 2013 CyberPowerSystems =	
= IAP Application (Version 0.0.1) =	
= By ATS Development Team =	
[Main Nenu]	
Download Firmware To the ATS Microprocessor 1	
Download Firmware To the LCD Microprocessor 2	
Execute The Program 3	
	<u>ب</u>
numering reneral here are in the second	lh.

5. Press "2" to select LCD upgrade.

900 - #RR#GR	
第2 編輯 1 秋雨 1 平4 1 時注 1 秋海 1 秋	
i∉ ∞ 3 =0 B G	
	==
= (C) COPYRIGHT 2013 CyberPowerSystems	-
= IAP Application (Version 0.0.1)	-
= By LCD Development Team	=
	==
Main Menu	
Download Firmware To the LCD Microprocessor	1
Execute The Program	2

6. Press "1".

▶ 9500 · 超展初端後	
SER SHE MAD HAG BED NAME	
0603086	
C) COPYRIGHT 2013 CyberPowerSystems	
= IAP Application (Version 0.0.1) =	
= By LCD Development Team =	

Main Menu	
Download Firmware To the LCD Microprocessor 1	
Execute The Program 2	
La carrie d'access	
Waiting for the file to be sent (press 'a' to abort)	
ccccccccc_	
C AND AND AND AND AND AND A SCROOL CARD WITH B FIGS	2

7. Select Transfer > Send File.

🏶 test - HyperTermi	nal		
<u>File Edit View Call</u>	Transfer	Help	
0 🖻 🍘 🔏 🗉	Send F	ile	
	Receiv	e File	⊢
	Captur	e Text	5
=	Send T	ext File	P
=	Captur	e to Printer	ł

8. Note that the Ymodem protocol and file "C:\cpsatslafw_xxx.bin" are selected in Hyper Terminal.

Folder: C:\temp		
ilename:		
C:\cpsatslafw_xxx.b	in	Browse
Protocol:		
Ymodem		

9 The download progress window will open after you click the Send button.

Sending:	C:\cpsat	slafw_xxx.bin		
Packet	0	Error checking:	CRC	File size: 8K
Retries:	3	Total retries:	3	Files: 1 of 1
Last error:	Unreque	sted response		
Last error: File:	Unreque	isted response		0K of 8K

10. After uploading the binary file, Hyper Terminal will be shown as below.



You can see if the firmware upgrade is successful by checking the "CyberPower System Firmware Version" after login.

- Note : 1. Please do not turn the ATS PDU off and ensure the quality of selected source power when processing firmware upgrade. The ATS PDU will not perform the ATS function when upgrading firmware.
 - 2. Press "3" to exit the main menu of firmware upgrade.



RMCARD

There are two files to update in order to upgrade the firmware:

- cpsrm2scfw_XXX.bin
- cpsrm2scdata_XXX.bin

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

Option 1: Using FTP Command

Use the following steps to upgrade the firmware.

- 1. Download the latest firmware.
- 2. Extract the downloaded files to "C:\".
- Open a command prompt window.
- 4. Login to the CyberPower Remote Management Card with FTP command, in the command prompt type:



- (1) ftp
- (2) ftp > open
- (3) To [current IP address of RMCARD] [port]; e.g., To 192.168.22.126 21
 (4) Input USER NAME and PASSWORD (same as the administrator account in web user interface)
- 5. Upload the cpsrm2scfw_XXX.bin, type:
 - ftp > bin
 - ftp > put cpsrm2scfw _XXX.bin
- 6. Upgrade is now complete, type: ftp > quit
- 7. The system will reboot after you type "quit".
- 8. Login to the FTP again as step 4.
- 9. Upload cpsrm2scdata _XXX.bin, type: ftp > bin
 - ftp > put cpsrm2scdata _XXX.bin
- 10. Upgrade complete, type
- ftp > quit
- 11. The system will reboot after you type "quit".
- Option 2: Using Upgrade and Configuration Utility Tool (Bulk Firmware Upgrade Tool)
- Use the following steps to upgrade the firmware.
- Install the CyberPower Upgrade and Configuration Utility tool available for download at <u>www.cyberpower.com</u>.
- 2. After installation completes, run the "Upgrade and Configuration Utility".
- 3. The main window of the Upgrade and Configuration Utility tool program is shown in below figure. The configuration tool will display all CyberPower Remote Management devices present on the local network subnet. The "Discover" button is used to search the local network subnet again.

Note: You can click "View" to select the items you want to view.

dit View Action Log H	Account and Password						
MAC Address	IP Address	Last Action	Result	Version	Location	Name	Devices
00011-040258 000211500580 000211500582 000211500582 000211500584	 192:162.552 192:162.564 192:162.564 192:162.564 192:162.571 192:162.581 192:162.510 192:162.510 192:162.5115 192:162.5115 192:162.5115 192:162.5115 192:162.5115 192:162.5115 192:162.5117 192:162.5115 192:162.5117 192:162.5115 192:162.5115 192:162.5117 192:162.5117 192:162.5117 192:162.5117 192:162.5117 192:162.5117 192:162.5117 192:162.5117 192:162.5117 192:162.5125 			21.5 22.5 1.10 1.0 2.1.6 1.0 2.1.5 1.1.0 2.1.6 2.1.8 1.0 1.0 1.0 1.0 1.0 1.0 2.1.5 1.1.0 1.0 2.1.5 2.1.5 2.2.6	Server Ro Server Ro	POUISSWIFNET POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RDCARD205 POUISSWIFNET RDCARD205 POUISSWIFNET RDCARD205 POUISSWIFNET RDCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 POUISSWIFNET RMCARD205 RMC	Discover Add Update Delete Import Export Action Upgrade Primvare Updad Configuration Downland Configuration Test Connection Abort

The main window of the "Upgrade and Configuration Utility" program

4. Check the boxes to select the devices you wish to upgrade, and select "Update" on the right to update the device user account and password. Once the update is confirmed, the status icon next to the IP Address will change from orange to green.

Note: You must update the device user account and password credentials before firmware upgrade.

- Select the devices you wish to upgrade by checking their respective checkbox and select "Upgrade Firmware".
 - **Note:** You can upgrade the firmware of multiple devices that use the same firmware files (Bulk firmware upgrade).
- 6. Select the Firmware and Data files and click "OK", as shown in below figure.

File Locatio	ns of Firmware & Data		Х
Firmware	C:\cpsrm2scfw_111.bin		Browse
Data	C:\cpsrm2scdata_111.bin		Browse
		ОК	Cancel

The File Locations of Firmware & Data window

7. Click "Yes" to start firmware upgrade on selected devices, as shown in below figure.





Confirm Upgrade Firmware message window

8. If the firmware upgrade is implemented, you will see the Result in the main window, as shown in below figure.

ration Log Please undate devices	Account and Password						
MAC Address	IP Address	Last Action	Result	Version	Location	Name	Devices
00015402580 0002550580 00025505854 00025505854 00025505854 00025505854 00025505854 00025505854 00025505854 00025505854 00025505844 00025500584 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005864 000255005876 000255005876 000255005876 000255005876 000255005876 000255005876 000255005876 000255005876 000255005876 000255005876 00025500587702	192:162.552 192:162.554 192:162.564 192:162.564 192:162.561 192:162.561 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5610 192:162.5612 192:162.5612 192:162.5612 192:162.5612	2017/11/13	Success	215 225 1.1.1 1.0.8 2.1.6 1.0.8 2.1.5 1.1.1 1.0.8 2.1.5 1.1.1 1.0.8 2.1.6 2.1.8 1.0.8 1.0.8 1.0.8 1.0.8 2.1.5 1.0.8 2.1.5 2.2.5 1.0.8 2.1.5 2.2.5 1.0.8 2.1.5 2.1.6 2.1.6 2.1.6 2.1.6 2.1.6 2.1.5 2.1.6 2.1.6 2.1.5 2.1.6 2.1.6 2.1.6 2.1.5 2.1.6 2.1.6 2.1.6 2.1.6 2.1.5 2.1.6 2.1.5 2.1.6 2.1.6 2.1.6 2.1.6 2.1.6 2.1.5 2.1.6 2.1.6 2.1.6 2.1.6 2.1.5 2.1.6 2.1.6 2.1.5 2.1.6 2.1.5 2.1.6 2.1.5 2.1.6 2.1.5 2.1.6 2.1.5 2.1.6 2.1.5 2.1.6 2.1.5 2.1.6 2.1.5 2.1.5 2.1.5 2.1.5 2.1.5 2.1.6 2.1.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	Server Ro Server Ro	PDUJSSWIGHTET PDUJSWIGHTAFFET PDUJSWIGHTAFFET RMCARD205 PDUJSSWIGHTAFFET PDUJSSWIGHTAFFET PDUJSSWIGHTAFFET PDUJSSWIGHTAFFET PDUJSSWIGHTAFFET PDUJSSWIGHTAFFET PDUJSSWIGHTAFFET PDUJSSWIGHTAFFET PRZ20LCDFTA2J	Discover Add Update Delete Import Export Action Upgrade Firmware Upload Configuration Test Connection Abort

Firmware upgrade success in the main window

Troubleshooting

Problem	Possible Cause	Solution
ATS 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 ATS 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!! 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Any special accessories needed for compliance must be specified in the instruction.

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.

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 is used. (2) Use only shielded cables to connect I/O devices to this equipment.

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

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

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

European Union

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

Customer Service & Warranty

Product Registration

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

Registration is quick and easy at <u>www.cyberpower.com/registration</u>.

CyberPower International

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

Cyber Power Systems, Inc. www.cyberpower.com

For USA and Canada: 4241 12th Ave East, Suite 400 Shakopee, MN 55379 Toll-free: (877) 297-6937

For all other regions:

Please visit our website for local contact information.

Customer Service & Warranty

Limited Warranty

Read the following terms and conditions carefully before using the CyberPower ATS 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?

Cyber Power 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 limited 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.
- When you contact CyberPower, identify the Product, the Purchase Date, and the item(s) of Connected Equipment.
- 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 reinstallation 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 ATS PDU configuration. In order for Hyper Terminal to interact with the ATS PDU, the PC/server must be connected directly to the ATS PDU via the serial port with the included RJ45/DB9 serial port connection cable. 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. Setup the COM port settings using the following values.

- * Bits per second: 38400
- * 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. Utility Configuration
- 2. Outlet Manager (Switched Series Only)
- 3. Load Configuration
- 4. Network Settings
- 5. System Configuration
- 6. Account Settings
- 7. Configure System to Default
- 8. Logout

[Utility Configuration]

- 1. Preferred Source: A
- 2. Sensitivity: High
- 3. Voltage Range: Medium
- 4. Frequency Deviation: 1 Hz
- 5. Nominal Voltage: 230 V
- 6. Wide Voltage Range: 30 V
- 7. Medium Voltage Range: 23 V
- 8. Narrow Voltage Range: 16 V
- 9. Set Load Restriction (Switched Series Only)

[Outlet Manager]

- 1. Outlet Control
- 2. Outlet Configuration

[Load Configuration]

- 1. Device Threshold Configuration
- 2. Bank 1 Threshold Configuration
- 3. Bank 2 Threshold Configuration
- 4. Bank 3 Threshold Configuration

[Network Setting]

Physical MAC Address: 00-0C-15-00-00-01

- 1. System IP: 192.168.20.240
- 2. Subnet Mask: 255.255.255.0
- 3. Default Gateway: 192.168.20.254
- 4. DHCP: Enabled
- 5. Http Port: 80
- 6. Http Access: Enabled

[System Configuration]

- 1. Name: PDU15SW10ATNET
- 2. Location: Server Room
- 3. Contact: Administrator

[Account Setting]

1. Administrator

[Configure System to Default]

Sure to Configure System to Default

- 1. Reset ATS PDU
- 2. Reset ATS PDU (TCP/IP Settings Reserved)



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 ATS PDUs.

Installation

- Step 1. Download the Power Device Network Utility software available at <u>www.cyberpower.com</u>.
- Step 2. Select Next in the software wizard (Shown in Figure 1).



Figure 1

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

🙀 Power Device Network Utility 1.5.1 Setup
Select Installation Folder This is the folder where Power Device Network Utility 1.5.1 will be installed.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Eolder: C:\Program Files\CyberPower Power Device Network Utility\ Browse
< <u>Back</u> Next > Cancel



Step 4. Select Install to confirm 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.
<back cancel<="" install="" td=""></back>

Figure 3

Appendix B-Power Device Network Utility

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



Figure 4

Launch Program

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

jason		-
Internet Internet Explorer	 Set Program Access and Defaults Windows Catalog Windows Lipdate 	
WordPad	Cames	
MSN	 Microsoft Platform SDK for Windows Server Startup 	2003 R2
Windows Media Playe	 Internet Explorer MSN 	
Windows Messenger	 Outlook Express Remote Assistance Windows Media Player 	
Tour Windows XP	Windows Messenger	
All Programs 👂	Debugging Tools for Windows CyberPower Power Device Network Utility	Power Device Network Utility
	Log Off 🚺 Turn Off Computer	Power Device Network Utility Help
🤩 start		

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 ATS PDU from the Equipment List (Shown in Figure 6).

Power Device Network	Utility				
le Tools Help					
Power Devices					
MAC Address	IP Address 👻	Subnet Mask	Gateway	DHCP	Nam
B 00-0C-15-40-08-A9	192.168.24.20	255.255.255.0	192.168.24.254	Enable	PDU
<					>
				Refresh	Stop

Figure 6. Equipment List

- **Note:** If the ATS PDU does not appear on the list, click the Refresh button to rescan the network. If it still does not appear, ensure that the ATS PDU is turned on and is 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.



Appendix B-Power Device Network Utility

Wind	lows Security Alert 🛛 🔀
٢	To help protect your computer, Windows Firewall has blocked some features of this program.
Do you	want to keep blocking this program?
	Name: Power Device Network Utility Publisher: Unknown
	Keep Blocking
Internet	s Firewall has blocked this program from accepting connections from the or a network. If you recognize the program or trust the publisher, you can it. <u>When should Lunblock a program?</u>
	Figure 7. Windows Security Alert

Step 2. Assign a valid IP Address to the ATS PDU.

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 ATS PDU device.

Device Network Settings		
Device MAC Ad	dress: 00-0C-15-40-08-A9	
Using DHCP	⊖Yes ⊙No	
IP Address	192 . 168 . 24 . 20	
Subnet Mask	255 . 255 . 255 . 0	
Gateway	192 . 168 . 24 . 254	
	Save Cance	91

Figure 8. Network Setting Menu (Device Setup)

Step 3. Authentication

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

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

Authentication	
Enter the user r	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 ATS PDUs. 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
Figure 10. Timeout Setting



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