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 Metered by Outlet Series		Metered by	Outlet Series
1U	2U	1U	2U
PDU84001 PDU84002 PDU84004 PDU84005 PDU84006 PDU84301	PDU84003 PDU84007 PDU84302	PDU74001 PDU74002 PDU74004 PDU74005 PDU74006 PDU74301	PDU74003 PDU74007 PDU74302
Switched	l Series	Monitore	ed Series
10	2U	1U	2U
PDU44001 PDU44002 PDU44004 PDU44005 PDU44006 PDU44301	PDU44003 PDU44007 PDU44302	PDU34001 PDU34002 PDU34004 PDU34005 PDU34006 PDU34301	PDU34003 PDU34007 PDU34302
Metered	Series		
1U	2U		
PDU24001 PDU24002 PDU24004 PDU24005 PDU24006 PDU24301	PDU24003 PDU24007 PDU24302		

*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 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 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.
- For the ATS PDU with attached input Power Cords, the socket must be installed near the equipment and must be easily accessible.
- Make sure to disconnect all power supply cords before attempting to service or remove this unit.
- As for overcurrent protection, please be noted that all ATS PDUs with an input current rating greater than 20A are equipped with two flush-mount branch circuit breakers.



Safety Precautions

Rack Mount

- Elevated Operating Ambient Temperature The ambient temperature within the rack may be greater than the room ambient temperature. Ensure to install the equipment in an environment compatible with the maximum ambient temperature. The maximum operating temperature of the equipment is 113°F (45°C).
- Reduced Air Flow Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- Mechanical Loading Mounting of the equipment in the rack should be such that a hazardous condition is not created due to uneven mechanical loading.
- Circuit Overloading Check nameplate ratings of equipment to ensure that there is no overloading of supply circuits that could have an effect on overcurrent protection and supply wiring.
- Reliable Earthing Maintain reliable grounding of the ATS PDU. Particular attention should be given to supply connections when connecting to power strips, rather than direct connections to the branch circuit.



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.

Précautions de sécurité

Lisez ce qui suit avant d'installer ou d'utiliser le Automatic Transfer Switches (ATS) PDU:

- · Utilisez uniquement le matériel fourni pour fixer les supports de montage.
- Le ATS 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 ces ATS PDU.
- N'installez jamais un ATS 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 ATS PDU avec les cordons d'alimentation d'entrée connectés la prise doit être installée à proximité de l'équipement et 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 ATS PDU avec un courant d'entrée supérieur à 20 A sont équipés de deux disjoncteurs de dérivation à montage encastré.

Montage en rack

- Température ambiante de fonctionnement élevée- La température ambiante dans le rack peut être supérieure à la température ambiante. Assurez-vous d'installer le matériel dans un environnement compatible avec la température ambiante maximale. La température maximale de fonctionnement de l'équipement dans cet environnement est de 45 ° C (113 ° F)
- Débit d'air réduit L'installation de l'équipement dans un rack doit être telle que le débit d'air reguis pour un fonctionnement en toute sécurité de l'équipement ne soit pas compromis.
- Chargement mécanique Le montage de l'équipement dans le rack ne doit pas créer de situation dangereuse en raison d'un chargement mécanique inégal.
- Surcharge du circuit Vérifiez les caractéristiques de la plaque signalétique de l'équipement pour vous assurer qu'il n'y a pas de surcharge des circuits d'alimentation qui pourrait avoir une incidence sur la protection contre les surintensités et le câblage d'alimentation.
- Mise à la terre fiable Maintenez une mise à la terre fiable du ATS PDU. Une attention particulière doit être accordée aux connexions d'alimentation lors du raccordement à des barrettes d'alimentation plutôt qu'aux connexions directes au circuit de dérivation.



Product Contents

For 1U Models



ATS PDU



Mounting Bracket x 2



Cord Retention Tray



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)



6 (M3x6) Cord Retention Tray Mounting Screws (Includes two spares)



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



User's Manual and Software Download Card

Below items only provided with IEC type ATS PDU

3



Power Cord 10 feet IEC-320 C13/C14 x 2 (PDU84004/PDU74004/ PDU44004/PDU34004/ PDU24004 Model Only)

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Power Cord 10 feet IEC-320 C19/C20 x 2 (PDU84005/PDU74005/ PDU44005/PDU34005/ PDU24005 Model Only)

Product Contents

For 2U Models





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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





12 (M3x6) Cord Retention Tray Mounting Screws (Includes two spares for each)

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



User's Manual and Software Download Card

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

Switched Metered by Outlet/ Metered by Outlet/ Switched/ Monitor Series



IEC Type

- A.Source Status Indicator Indicates the status of Source A and B.
- B. Source Selected Indicator Indicates Source A or B is in use.

- C. Output Indicator Indicates the output is available or not. D. Status Indicator Indicates the condition of the ATS PDU (eg. load or environment status).
- E. Multifunction LCD Readout Displays various ATS PDU information such as power and load condition.
- F. Ethernet Port Used to connect ATS PDU to the network. G.ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) – Used for ENVIROSENSOR or chaining to previous ATS PDU.
- H. USB Port Used to upgrade the firmware via a flash drive.
 I. Serial Port (RJ45 modular port) Used to connect to a PC and control the ATS PDU locally via SSH/Telnet.
- J. Daisy Chain (Out) Port Used for chaining to next ATS PDU.
- K. Select Button Used to control the LCD screen and toggle through the available information options.
- L. Enter Button Used to choose selected items, enter to next level menu or return to previous menu. M.AC Inlet/AC Power Cord - Use to connect ATS PDU to utility or UPS.
- N.Ground Stud Use to ground the ATS PDU.
- O.AC Output Receptacles Provides power distribution for connected equipment.
- P. Outlet Indicator (switched series only) When the LED is on, the outlet is providing power to connected equipment. Q.Circuit Breaker - Provides output overload protection.

Technical Specifications

Model Name	PDU84001 PDU74001 PDU44001 PDU34001	PDU84004 PDU74004 PDU44004 PDU34004	PDU24001	PDU24004
Input				
Nominal Voltage	100-120V	200-240V	100-120V	200-240V
Frequency		50/6	OHz	
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	3.05 m	
Circuit Breaker	No	Yes	No	Yes
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
Management and Communic	cations			
Multifunction LCD Readout	ut Voltage, Frequency, Load, Current, Voltage, Frequency, Lo HW/FW Version, Network Information HW Versior		•••	
Software		el* Business I* Enterprise	Ν	10
Networking	Y	es	N	0
Serial Port		RJ	45	
Sensor Capable	Opt	ional	N	0
Physical				
Dimension (H x W x D)	1.75	" x 17.05" x 8.45"/ 44	1mm x 433mm x 215	mm
Environmental				
Humidity		0 to 95% Nor	n-condensing	
Altitude	13100 ft/4000 m			
Temperature	32°F to 113°F/0°C to 45°C			
Safety Approvals				
Certifications	UL62368-1, FCC Class A	UL62368-1, CE EN55032/24, FCC Class A	UL62368-1, FCC Class A	UL62368-1, CE EN55032/24, FCC Class A

* All specifications are subject to change without notice

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

Switched Metered by Outlet/ Metered by Outlet/ Switched/ Monitor Series





- A.Source Status Indicator Indicates the status of Source A and B.
- B. Source Selected Indicator Indicates Source A or B is in use.
- C.Output Indicator Indicates the output is available or not. D.Status Indicator Indicates the condition of the ATS PDU (eg. load or
- environment status). E. Multifunction LCD Readout - Displays various ATS PDU information such as
- power and load condition. F. Ethernet Port - Used to connect ATS PDU to the network.
- G.ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) Used for ENVIROSENSOR or chaining to previous ATS PDU.
- H.USB Port Used to upgrade the firmware via a flash drive.
 I. Serial Port (RJ45 modular port) Used to connect to a PC and control the ATS PDU locally via SSH/Telnet.
- J. Daisy Chain (Out) Port Used for chaining to next ATS PDU.
- K. Select Button Used to control the LCD screen and toggle through the available information options.
- L. Enter Button Used to choose selected items, enter to next level menu or return to previous menu. M.AC Inlet/AC Power Cord - Use to connect ATS PDU to utility or UPS.
- N.Ground Stud Use to ground the ATS PDU.
- O.AC Output Receptacles Provides power distribution for connected equipment.
- P. Outlet Indicator (switched series only) When the LED is on, the outlet is providing power to connected equipment.

Model Name	PDU84002 PDU74002 PDU44002 PDU34002	PDU84006 PDU74006 PDU44006 PDU34006	PDU24002	PDU24006
Input				
Nominal Voltage	100-120V	200-240V	100-120V	200-240V
Frequency		50/6	SOHz	
Derated Input Current		16	βA	
Plug Type	(2) NEMA (L)5-20P (Adapter)	(2) NEMA L6-20P	(2) NEMA (L)5-20P (Adapter)	(2) NEMA L6-20P
Power Cord Type	SR (12AWG)	Socket	SR (12 AWG)	Socket
Power Cord Length		10 ft/3	3.05 m	
Output				
Nominal Voltage	100-120V	200-240V	100-120V	200-240V
Derated Output Current	16A	C13: 12A C19: 16A	16A	C13: 12A C19: 16A
Outlet Type	NEMA 5-20R	(8) IEC C13 (2) IEC C19	NEMA 5-20R	(8) IEC C13 (2) IEC C19
Outlet Number	10	8+2	10	8+2
Management and Commun	ications			
Multifunction LCD Readout	Voltage Frequency Load Current Voltage Frequency Load			
Software		el® Business I® Enterprise	Ν	10
Networking	Y	es	N	lo
Serial Port		RJ	45	
Sensor Capable	Opt	ional	N	lo
Physical				
Dimension (H x W x D)	1.75	" x 17.05" x 8.45"/ 44	4mm x 433mm x 215	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		UL62368-1,	FCC Class A	

Technical Specifications

All specifications are subject to change without notice.



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

Switched Metered by Outlet/ Metered by Outlet/ Switched/ Monitor Series



- A.Source Status Indicator Indicates the status of Source A and B.
- B. Source Selected Indicator Indicates Source A or B is in use.
- C. Output Indicator Indicates the output is available or not. D. Status Indicator Indicates the condition of the ATS PDU (eg. load or environment status). E. Multifunction LCD Readout - Displays various ATS PDU information such as
- power and load condition.
- F. Ethernet Port Used to connect ATS PDU to the network. G.ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) – Used for ENVIROSENSOR or chaining to previous ATS PDU.
- H.USB Port Used to upgrade the firmware via a flash drive I. Serial Port (RJ45 modular port) - Used to connect to a PC and control the ATS PDU locally via SSH/Telnet.
- J. Daisy Chain (Out) Port Used for chaining to next ATS PDU. K. Select Button - Used to control the LCD screen and toggle through the available information options.
- L. Enter Button Used to choose selected items, enter to next level menu or return to previous menu.
- M.AC Inlet/AC Power Cord Use to connect ATS PDU to utility or UPS.
- N.Ground Stud Use to ground the ATS PDU.
- O.AC Output Receptacles Provides power distribution for connected equipment.
- P. Outlet Indicator (switched series only) When the LED is on, the outlet is providing power to connected equipment Q.Circuit Breaker – Provides output overload protection.

Technical Specifications

Model Name	PDU84005 PDU74005 PDU44005 PDU34005	PDU84301 PDU74301 PDU44301 PDU34301	PDU24005	PDU24301
Input				
Nominal Voltage		200-	240V	
Frequency		50/6	50Hz	
Derated Input Current		16	A	
Plug TypePlug Type	(2) IEC-320 C20	(2) IEC 309 16A	(2) IEC-320 C20	(2) IEC 309 16A
Power Cord Type		Soc	ket	
Power Cord Length		10 ft/3	3.05 m	
Circuit Breaker	Yes	No	Yes	No
Output				
Nominal Voltage		200-	240V	
Derated Output Current	C13: 12A (UL) 10A (CE) C19: 16A	C13: 10A (CE) C19: 16A	C13: 12A (UL) 10A (CE) C19: 16A	C13: 10A (CE) C19: 16A
Outlet Type		(8) IEC C13 (2) IEC C19		
Outlet Number	8+2			
Management and Commun	ications			
Multifunction LCD Readout	Voltage, Frequency, Load, Current, HW/FW Version, Network Information HW Version			
Software		el® Business ® Enterprise	N	lo
Networking	Ye	es	N	lo
Serial Port		RJ	45	
Sensor Capable	Opt	ional	N	lo
Physical				
Dimension (H x W x D)	1.75	" x 17.05" x 8.45"/ 44	4mm x 433mm x 215	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	UL62368-1, CE EN55032/24, FCC Class A	CB, CE EN55032/24 Class A	UL62368-1, CE EN55032/24, FCC Class A	CB, CE EN55032/24 Class A

* All specifications are subject to change without notice.



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



IEC Type

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- A.Source Status Indicator Indicates the status of Source A and B
- B. Source Selected Indicator Indicates Source A or B is in use.
- D. Source Source A of B is in dealer. C. Output Indicator Indicates the output is available or not. D. Status Indicator Indicates the condition of the ATS PDU (eg. load or environment status).
- E. Multifunction LCD Readout Displays various ATS PDU information such as power and load condition.
- F. Ethernet Port Used to connect ATS PDU to the network.
- G.ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) Used for ENVIROSENSOR or chaining to previous ATS PDU. H.USB Port - Used to upgrade the firmware via a flash drive.
- I. Serial Port (RJ45 modular port) Used to connect to a PC and control the ATS PDU locally via SSH/Telnet.
- J. Daisy Chain (Out) Port Used for chaining to next ATS PDU. K. Select Button - Used to control the LCD screen and toggle through the
- available information options.
- L. Enter Button Used to choose selected items, enter to next level menu or return to previous menu. M.AC Inlet/AC Power Cord - Use to connect ATS PDU to utility or UPS.
- N.AC Output Receptacles Provides power distribution for connected equipment
- O.Outlet Indicator (switched series only) When the LED is on, the outlet is providind power to connected equipment. P. Circuit Breaker - Provides output overload protection.
- Q.Ground Stud Use to ground the ATS PDU

Technical Specifications

Model Name	PDU84003 PDU74003 PDU44003 PDU34003	PDU84007 PDU74007 PDU44007 PDU34007	PDU24003	PDU24007
Input				
Nominal Voltage	100-120V	200-240V	100-120V	200-240V
Frequency		50/6	50Hz	
Derated Input Current	24A			
Plug Type	(2) NEMA L5-30P	(2) NEMA L6-30P	(2) NEMA L5-30P	(2) NEMA L6-30P
Power Cord Type		SR (10	AWG)	
Power Cord Length		10 ft/3	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	20A (per bank)			
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	16+1	16+2+1	16+1	16+2+1
Circuit Breaker		Ye	es	
Management and Commur	nications			
Multifunction LCD	Voltage, Frequen	cy, Load, Current,	Voltage, Fred	quency, Load,
Readout	HW/FW Version, N	etwork Information	Current, HW Version	
Software		el® Business I® Enterprise	No	
Networking	Y	es	N	10
Serial Port		RJ	45	
Sensor Capable	Opti	ional	Ν	10
Physical				
Dimension (H x W x D)	3.5'	" x 17.05" x 8.45" / 88	3mm x 433mm x 215	mm
Environmental				
Humidity		0 to 95% Nor	n-condensing	
Altitude	13100 ft/4000 m			
Temperature	32°F to 113°F/0°C to 45°C			
Safety Approvals				
Certifications	UL 62368-1, FCC Class A			

* All specifications are subject to change without notice.



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



Switched Metered by Outlet/ Metered by Outlet/ Switched/ Monitor Series

- A. Source Status Indicator Indicates the status of Source A and B
- B. Source Selected Indicator Indicates Source A or B is in use.
- C. Output Indicator Indicates the output is available or not. D.Status Indicator Indicates the condition of the ATS PDU (eg. load or environment status).
- E. Multifunction LCD Readout Displays various ATS PDU information such as power and load condition.
- F. Ethernet Port Used to connect ATS PDU to the network. G.ENVIROSENSOR/ Daisy Chain (In) Port (RJ45 modular port) Used for
- ENVIROSENSOR or chaining to previous ATS PDU. H.USB Port Used to upgrade the firmware via a flash drive.
- I. Serial Port (RJ45 modular port) Used to connect to a PC and control the ATS PDU locally via SSH/Telnet.
- J. Daisy Chain (Out) Port Used for chaining to next ATS PDU.
- K. Select Button Used to control the LCD screen and toggle through the available information options.
- L. Enter Button Used to choose selected items, enter to next level menu or return to previous menu.
- N.AC Inlet/AC Power Cord Use to connect ATS PDU to utility or UPS. N.AC Output Receptacles Provides power distribution for connected
- equipment
- O.Outlet Indicator (switched series only) When the LED is on, the outlet is providind power to connected equipment. P. Circuit Breaker - Provides output overload protection.
- Q.Ground Stud Use to ground the ATS PDU

Technical Specifications

Model Name	PDU84302 PDU74302 PDU44302 PDU34302	PDU24302	
Input			
Nominal Voltage	200-2	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	
Derated Output Current	C13: C19:		
Derated Output Current	20A (pe	r bank)	
Bank Number	2		
Outlet Type	(16) IE (2) IE		
Outlet Number	16+2		
Circuit Breaker	Ye	25	
Management and Communic	ations		
Multifunction LCD Readout	Voltage, Frequency, Load, Current, HW/FW Version, Network Information	Voltage, Frequency, Load, Current, HW Version	
Software	PowerPanel Business, PowerPanel Enterprise	No	
Networking	Yes	No	
Serial Port	RJ	45	
Sensor Capable	Optional	No	
Physical			
Dimension (H x W x D)	3.5" x 17.05" x 8.45"/ 88	mm x 433mm x 215mm	
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	CB, CE EN550	32/24 Class A	

* 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.



ATS PDU with the 4 supplied Cord Retention Tray Mounting Screws.

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



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



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.



Locking Power Cord - 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

- Step 1 Network Connection
 - Using an Ethernet cable, attach one end to the Ethernet port on the front of the ATS PDU, 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.

DHCP is enabled by factory default. If the ATS 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 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: Power Device Network Utility (recommended)

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

- 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 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.
- 2. 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**.

SNMP

The CyberPower ATS PDU supports SNMPv1 and SNMPv3 protocols. Download the CyberPower MIB file from <u>www.cyberpower.com</u> 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.

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 ATS 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
Environment Status (Displays when the ENVIROSENSOR is connected)
Alert Number

B. Main Menu Map

	-		
Alert	Current		
	Log		
	Source		
Meter	Device		
	Outlet		
		All	Immediate On
			Delay On
Control	Outlet	Bank 1/2	Immediate Off
Control	Outlet		Delay Off
		Outlet 1-N	Reboot
		Outlet I-N	Delay Reboot
Sensor			
		Preferred Source	A/B/None
	Source	Voltage	Nominal Voltage
			Voltage Range
			Sensitivity
		Frequency Deviation	1/2/3 Hz
		Color	
	LCD	Brightness	
Setting		Direction	
		Scren off	
		Account	
		(User Name and	
	Reset	Password)	
		Except TCP	
		To Defautl	
	Reboot		
	Model Name		
	Serial Number		
About	Network		
ADOUL	Daisy Chain		
	Hardware Version		
	Filmware Version		



Operation

LED Indicators

Indicator	Status	Description
Courses	Green	Power condition of the source is normal.
Source	Red	Power condition of the source is abnormal.
	Green	The ATS PDU status is normal.
Status	Orange	Warning.
	Red	Critical.
	Off	The ATS PDU power is off.
Tx/Rx	On (Green)	The ATS PDU power is on.
	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.
Gutlet	Off	The outlet is off.

Environmental Monitoring (optional)

CyberPower ATS PDUs along with the environmental sensor (ENVIROSENSOR) provide temperature and humidity monitoring in a server closet and/or datacenter remotely. To connect the ATS PDU with ENVIROSENSOR, use the RJ45 Ethernet Cable included with the ENVIROSENSOR. Plug one end into the Daisy Chain (In)/ENVIROSENSOR port on the ATS PDU and the other end into the RJ45 port on the ENVIROSENSOR (as shown in figure below). When the ATS PDU correctly connects to the ENVIROSENSOR, users can see the temperature and humidity data via the Web Interface. For further information regarding ENVIROSENSOR configuration, please refer to the Intelligent ATS 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 (Remote) software automatically initiates a graceful shutdown on the connected computer's operating system. PowerPanel must be installed on every computer or server for which

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 ATS PDU 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 (Remote) on every computer/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 (Remote). See the PowerPanel® Business 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 on the web interface (Follow the instructions in the PowerPanel* Business 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 ATS 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 ATS PDU overload, notification will be sent
- Outlet Overload: In the event of ATS PDU overload, notification will be prior to the ATS PDU shutting down.

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.

- Switched Metered by Outlet/ Metered by Outlet/ Switched/ Monitored Series: There are four methods for upgrading the ATS PDU firmware. Please follow the instructions below for the method that is appropriate for your application. There are two files to update in order to upgrade the firmware version:
 - * cpsmpdumafw_XXX.bin
 - * cpsmpdumadata_XXX.bin
- Metered Series:

You can use a USB Flash Drive to upgrade the ATS PDU firmware. Please follow the instructions below for using a USB Flash Drive. There is one file to update in order to upgrade the firmware version:

* cpsmpdumcfw_XXX.bin

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

Prior to performing a firmware update, please:

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

Note:

- 1. The FTP service needs to be enabled before attempting to execute a firmware upgrade.
- Please do not turn the ATS PDU off when performing the firmware upgrade. ATS PDU outlets will remain powered on while the firmware update takes place. Only the ATS PDU LCD screen will reboot.
- The ATS PDU LCD screen will reboot during the firmware update process. This DOES NOT cause the ATS 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 ATS 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 ATS PDU and 21 is the default ftp port for the ATS 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 cpsm cpsmpdumafw_XXX.bin, type
 - ftp > bin
 - ftp > put cpsmpdumafw_XXX.bin
- 4. Upgrade complete, type
 - ftp > quit
- 5. The system will reboot after you type "quit". This reboot will take approx. 30 seconds.
- 6. Login to the ATS 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 ATS PDU and 21 is the default ftp port for the ATS PDU)

- Connected to 192.168.22.126.
- 220 CyberPower FTP Server Ready.
- User (192.168.22.126:(none)):cyber
- 331 User name okay, need password.
- Password:
- 230 User logged in, proceed.
- ftp>
- 7. Upload cpsmpdumadata_XXX.bin, type
 - ftp > bin
 - ftp > put cpsmpdumadata_XXX.bin

- 8. Upgrade complete, type
 - ftp > quit
- 9. The system will reboot after you type "quit".

Option 2: Single or Multiple Device Upgrade (recommended) Use the following steps to upgrade the firmware.

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

rat	on Log						
	Please configure dev	ice Account and	Password				
	IP Address	Last Action	Result	Version	Name	-	Devices
	192.168.26.33			215	PDUISSWRENET		
	192.168.26.36	Discover I	Device			×	Discover Add
	192.168.26.120						
	192.168.26.153						Update
	192.168.26.146		Lookin	ng for deivces	, please wait		Import
	192.168.26.102						Export
	9 192.168.26.147						export
	9 192.168.26.154						
	192.168.26.140						Action
	192.168.26.211						Upgrade Firmware
	9 192.168.26.210				Can	cel	Upload Configuration
1	192.168.26.104					-	Test Connection
	192.168.26.151			2.1.6	RMCARD205		Abort
	192.168.26.35			2.2.7	PDU30SWT17ATNET		
	192.168.26.34			2.1.5	PDU20SWT10ATNET		
	192.168.26.213			2.1.6	PDU15SW8FNET		
	9 192.168.26.68			2.1.6	PDU20SWT8FNET	-	

Figure 1

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

Edit View Actoriation Log	n Log Help	ount and Passy	vord				
IP Address	-	t Action	Result	Version	Name		Devices
 192.168 	26.51 26.54 26.66 26.68 26.100 26.102 26.102 26.104			0.9.9 0.2.7 0.9.3 2.2.8 2.1.6 2.1.6 1.0.2 2.2.8	PDU30SWT16FNET PDU20SWT10ATNET PDU81002 RMCARD205 PDU20SWT8FNET RMCARD205 PDU81001 PDU81001 PDU30SWT17ATNET	11	Discover Add Update Delete Import Export
 192.168 	26.115 26.120 26.137 26.140 26.146 26.147			2.1.7 1.0.9 1.0.2 1.0.9 1.0.4 1.0.4 0.9.3 0.1.5	PDU205WVT24FNET RMCARD205 PDU81001 PDU305WHVT19ATN RMCARD205 PDU81002 PDU81001 OB600		Upgrade Firmware Upload Configuration Test Connection Abort
92.168				1.0.9	BMCARD205	-	

Figure 2

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

	tion Log							
_	Please configure dev	ice Account and Pas	isword					
]	IP Address	Last Action	Result	Version	Name		-	Devices
	9 192.168.26.50			0.9.9	PDU30SWT16FNE	т		Discover
	192.168.26.51 192.168.26.54	Upda	te Device			×		Add
	9 192 168 26 66							Update
	9 192 168 26 68	Acc	ount c	yber				Delete
	9 192.168.26.100							Import
	9 192.168.26.102	Pas	sword c	yber				Export
	9 192.168.26.104						-	
	9 192.168.26.108							Action
	9 192.168.26.115							Upgrade Firmware
	9 192.168.26.120							Upload Configuration
	9 192.168.26.137							Test Connection
	192.168.26.140							Abort
	192.168.26.146				OK Cano	el		PROVING S
	192.168.26.147							
	9 192.168.26.148			1.0.9	OR600			
	192.168.26.149			2.1.6	RMCARD205		T	

Figure 3

6. Select Upgrade Firmware.

7. Click **Browse** to locate and select the firmware and data file to be updated (Shown in Figure 4).

dit	View Action Log H	felp					
atio	n Log						
	Please configure devic	e Account and	Password				
IF	Address A	Last Action	Result	Version	Name	*	Devices
	192.168.26.51			0.2.7	PDU20SWT10ATNET		Discover
۲	192.168.26.68			2.1.6	PDU20SWT8FNET		Add
•	192.168.2	ations of Fin	mware 8	Data			×
-	192.168.2		invitine of	Dutu			~
	192.168.2 Firmwar	e D:\Ultility	PDU fw\cp	smpdumafw.	_104\cpsmpdumafw_104.bin	Bro	owse
-	192.168.2 192.168.2	-				· · · · · · · · · · · · · · · · · · ·	
	192.168.2 Data	D: Utility	(PDU fw/cp	smpdumatw_	_104\cpsmpdumadata_104.bi	n Bro	owse
ĕ	192.168.2				OK		ancel
-	192 168 2				ON		
	192,168,26,146			1.0.4	PD081002		Firmware
	192.168.26.147			0.9.3	PDU81001		Upload Configuration Test Connection
	192.168.26.148			0.1.5	OR600		Abort
	192.168.26.149			1.0.9	RMCARD205		ADDIT
۲	192.168.26.151			2.1.6	RMCARD305		
۲	192.168.26.153			1.0.4	PDU81001		
	192 168 26 154			0.9.3	PDU81001	-	



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

_	tion	View Action Log	ј нер					
		Please configure d	evice Account and Passw	ord				
	IP	Address 🛆	Last Action	Result	Version	Name	*	Devices
Г	•	192,168,26,51	_		0.2.7	PDU20CMT10AT	THET	_
	é	192.168.26.68	Upgrade Frimware					× Discover
		192.168.26.100						Add
	•	192.168.26.102						Jpdate
	•	192.168.26.104	Do you war	nt to upgrade	firmware v1	.0.4 on 2 selected of	levices?	Delete
	۲	192.168.26.108						Import
	۲	192.168.26.115						Export
		192.168.26.120	Firmware F Data File: 0					
	۲	192.168.26.137	Data Hiel C	psinpoundo	10-10-10-10-1			tion
	۲	192.168.26.140						Jpgrade Firmware
]	۲	192.168.26.146				YES	NO	Joload Configuration
	۲	192.168.26.147						Test Connection
	۲	192.168.26.148			0.1.5	OR600		Abort
	۲	192.168.26.149			1.0.9	RMCARD205		
	۲	192.168.26.151			2.1.6	RMCARD305		
	۲	192.168.26.153			1.0.4	PDU81001	-	
			11.				•	

Figure 5

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

Edit View Action Log	1.00				
-	evice Account and Pas	isword			
] IP Address 🔺	Last Action	Result	Version	Name	Devices
 192.163.26.51 192.163.26.68 192.163.26.100 192.163.26.100 192.163.26.102 192.163.26.104 192.163.26.104 192.163.26.120 192.163.26.120 192.163.26.120 192.163.26.143 192.163.26.149 192.163.26.149 192.163.26.149 192.163.26.148 192.163.26.153 	8	Proces	0.2.7 2.1.6 2.1.6 1.0.2 2.2.8 2.1.7 1.0.9 1.0.2 1.0.9 1.0.4 1.0.4 0.9.3 0.1.5 1.0.9 2.1.6 1.0.4	PDU230SWT10ATNET PDU230SWT10ATNET PDU330SWT17ATNET PDU330SWT17ATNET PDU330SWT24FNET RNCARD205 PDU330SWHT19AT PDU330SWHT19AT PDU31001 PDU31001 PDU31001 PDU31001	Discover Add Update Delete Import Export Action Upgrade Firmware Upgrade Firmware Upgrade Firmware Upgrade Firmware Upgrade Firmware Upgrade Firmware



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

Please configure devi	ce Account and Passwo	d			
IP Address	Last Action	Result	Version	Name	Devices
• 192.163.26.51 • 192.163.26.68 • 192.163.26.102 • 192.163.26.102 • 192.163.26.104 • 192.163.26.104 • 192.163.26.104 • 192.163.26.104 • 192.163.26.104 • 192.163.26.114 • 192.163.26.114 • 192.163.26.146 • 192.163.26.146 • 192.163.26.146 • 192.163.26.147 • 192.163.26.147 • 192.163.26.147 • 192.163.26.147 • 192.163.26.147 • 192.163.26.147 • 192.163.26.147 • 192.163.26.147 • 192.163.26.147 • 192.163.26.142	2017/03/16 15:0 2017/03/16 15:0	Success	0.2.7 2.1.6 2.1.6 1.0.4 2.2.8 2.1.7 1.0.9 1.0.4 1.0.9 1.0.4 1.0.4 0.9.3 0.1.5 1.0.9 2.1.6 1.0.4	PDU203WT10ATHE PDU203WT8FNET PDU205WT8FNET PDU305WT7ATNE PDU305WVT24FNET RMCARD205 PDU31001 PDU31001 PDU31001 PDU31001 PDU31001 RMCARD205 RMCARD205 RMCARD205 PDU31001	Discover Add Update Delete Export Action Upgrade Firmware Upgrade Configuration Test Connection Abort

Figure 7

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

Option 3: Use a USB Flash Drive

Use the following steps to upgrade the firmware.

- 1. Download the latest firmware from <u>www.cyberpower.com</u>.
- 2. Extract the file to the root directory of a USB flash drive with FAT32 format.
 - Switched Metered by Outlet/ Metered by Outlet/ Switched/ Monitored Series: Please note that the two files below should be available in order to complete the firmware upgrade process:
 - * cpsmpdumafw_XXX.bin
 - * cpsmpdumadata_XXX.bin
 - Metered Series:

Please note that the file below should be available in order to complete the firmware upgrade process:

- * cpsmpdumcfw_XXX.bin
- Plug the USB drive into the ATS PDU USB port and press Enter button on the ATS PDU LCD screen to enter Main Menu. The USB option will be displayed.



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

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

6. The ATS 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 ATS PDU information. Select Firmware Version to check the ATS PDU Firmware Version.

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 ATS PDU>:



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

(2) <filename> is the filename of the firmware file. There are two firmware files to upload: cpsmpdumafw_XXX.bin and cpsmpdumadata_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 firmware file cpsmpdumafw_XXX.bin first followed by the data file cpsmpdumadata_XXX.bin.

(3) <user> is the username of the SSH account on the ATS 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 ATS PDU password. The firmware file transfer may take a couple minutes to complete. Please wait until the progress indicator displays 100%. The system will automatically log out and reboot after the transfer is complete.
- Repeat steps 4 through step 6 to upload the data file cpsmpdumadata_ XXX.bin to complete the firmware update process.
- 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.
- 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 ATS PDU>:

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

- (2) <filename> is the filename of the firmware file. There are two firmware files to upload: cpsmpdumafw_XXX.bin and cpsmpdumadata_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 firmware file cpsmpdumafw_XXX.bin first followed by the data file cpsmpdumadata_XXX.bin.
- (3) <user> is the username of the SSH account on the ATS 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.
- 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 ATS PDU password. The firmware file transfer may take a couple minutes to complete. Please wait until the progress indicator displays 100%. The system will automatically log out and reboot after the transfer is complete.
- Repeat steps 3 through step 5 to upload the data file cpsmpdumadata_ 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.

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 rec 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.cyberpowersystems.com/registration</u> (for USA and Canada) or <u>www.cyberpower.com/registration</u> (for all other regions).

CyberPower International

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

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All Other Regions Please visit our website for local contact information.

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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.
- 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: 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. 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-15-40-00-01

- 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: PDU44005
- 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 from www.cyberpower.com.
- 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 1.5.2 Setup	
Select Installation Folder This is the folder where Power Device Network Utility 1.5.2 will be installed.	\odot
To install in this folder, click "Next". To install to a different folder, enter it be "Browse".	low or click
Eolder: C:\Program Files\CyberPower Power Device Network Utility\	Browse
< <u>B</u> ack Next >	Cancel



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

🖟 Power Device Network Utility 1.5.2 Setup
Ready to Install The Setup Wizard is ready to begin the Power Device Network Utility 1.5.2
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
< <u>Back</u> Install Cancel

Figure 3

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 Internet Explorer	 Set Program Access and Defaults Windows Catalog Windows Update 	
WordPad	Cames	
MSN	 Microsoft Platform SDK for Windows Server Startup 	er 2003 R2
Windows Media Playe	 Internet Explorer MSN Outlook Express 	
Windows Messenger	Collook Express Remote Assistance Windows Media Player	
Tour Windows XP	Windows Messenger Windows Movie Maker	
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				
File Tools Help					
Power Devices					
MAC Address	IP Address 👻	Subnet Mask	Gateway	DHCP	Nam
B00-0C-15-40-08-A9	192.168.24.20	255.255.255.0	192.168.24.254	Enable	PDU2
<					>
				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. Click **Unblock** to allow access.



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

Appendix C-ATS PDU Daisy-Chain Function

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



When ATS PDUs are connected, two roles are defined: Host and Guest. Up to three Guest ATS PDUs can be connected to one Host ATS PDU. The Guest ATS 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 ATS PDUs needs to be the same (v1.2.2 or above).

How to connect the PDUs together?

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



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

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

What functions on the Web pages does daisy-chain support?

Please find in below table:

Summary				
	Source Status			
	Device Status			
	Outlet Status			
	Source Manager			
PDU	Device Manager			
	Outlet Manager			
	Outlet Control			
	Outlet Schedule			
	Event Counts			
	Status Records			
Log	Energy Records			
	Graphing			
System	Identification			



Appendix C-PDU Daisy-Chain Function

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

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

Status Sourco Device Sourco Outlet Action Daisy chain Event Counts Wake on Lan EnergyWise EnergyWise Bank Bank Bank	ected Source ferred Source ince Voltage (A/B) ince Frequency (A/B) ince Status (A/B) ase Synchronization	Source A Source A 113.5 /113.5 V 60.0 /60.0 Hz OK / OK Yes		Host Host Guest #1	IJ ■]		
	vice Load wer Factor Iki Load Iki Load Iki Load werv		(at 01/31/2016 03 (from 01/31/2016					
Device	ice wer Supply Status	ок						

Can I upgrade the firmware version of the Guest ATS 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 Host completes the ATS PDU firmware upgrade, it will trigger its Guest ATS PDUs to upgrade the firmware automatically. It takes about 5 minutes for the Guest ATS PDUs to upgrade, regardless of the number of ATS PDUs in the series.

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

For example, if four ATS 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 ATS PDU. An event showing that Guest 2 and 3 are removed will be recorded in the Host ATS 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 ATS 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 ATS PDU in the daisy-chain is powered off?

For example, if four ATS 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 ATS PDU. Guest 2 and 3 will not create another daisy-chain.

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

Yes, the Host ATS PDU records the logs from all Guest ATS PDUs daisychained to it.

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

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



Appendix C-PDU Daisy-Chain Function

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

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

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

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

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

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

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

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

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

50 ft (15 m)

Troubleshooting

Problem	Possible Cause	Solution
The ATS PDUs are connected but the daisy-chain function is not working.	 The firmware version does not support daisy- chain. The ATS PDUs have dierent firmware versions. 	Check the firmware version of each ATS PDU and upgrade it to v1.2.2 or above.
I cannot set the EnergyWise configuration on a Guest ATS PDU.	Only the Host ATS PDU supports EnergyWise.	N/A
I cannot set the WoL for Guest ATS PDUs.	Only the Host ATS 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.



RJ45 Plug (Male)



Pin1	N/A
Pin2	GND
Pin3	N/A
Pin4	N/A
Pin5	N/A
Pin6	RX
Pin7	N/A
Pin8	ТХ



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