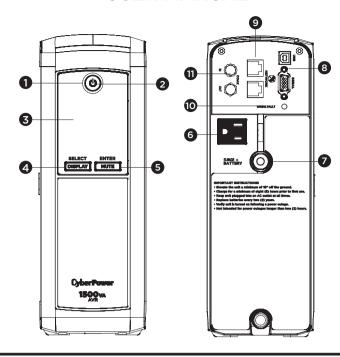
USER MANUAL



FEATURES

- 1. Power Switch
- 2. Power On Indicator
- 3. LCD Module Display
- 4. Display/Select Button
- 5. Mute/Enter Button
- 6. Battery and Surge Protected Outlet
- 7. Circuit Breaker
- 8. Serial/USB Ports to PC
- 9. Communication Protection Ports
- 10. Wiring Fault Indicator (red)
- 11. Coax/Cable/DSS Surge Protection

PRODUCT REGISTRATION

Thank you for purchasing a CyberPower product. This UPS is designed to provide unsurpassed power protection, operation, and performance during the lifetime of the product. Please take a few minutes to register your product at: **www.CyberPowerSystems.com/registration**. Registration certifies your product's warranty, confirms your ownership in the event of a product loss or theft, and entitles you to free technical support. Register your product now to receive the benefits of CyberPower ownership.

Cyber Power Systems (USA), Inc.

4241 12th Avenue East, Suite 400 | Shakopee, MN 55379 | CyberPowerSystems.com

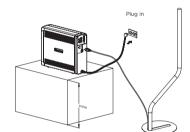
INSTALLING YOUR UPS SYSTEM - continued

OVERVIEW

The A1500SP1 provides complete power protection from utility power that is not always consistent. The A1500SP1 features 1500 Joules of surge protection. The unit ensures consistent power to your sump pump and provides long lasting battery backup during power outages with maintenance free batteries.

HARDWARE INSTALLATION GUIDE

- Your new UPS may be used immediately upon receipt. However, after receiving a new UPS, to ensure the battery's maximum charge capacity, it is recommended that you charge the battery for at least 8 hours. Your UPS is equipped with an auto-charge feature. When the UPS is plugged into an AC outlet, the battery will automatically charge whether the UPS is turned on or off.
- Note: This UPS is designed with a safety feature to keep the system from being turned on during shipment. The first time you turn the UPS on, you will need to have it connected to AC power or it will not power up.
- Elevate the UPS at least 18 inches above the floor on a stable surface like a table or shelf.
- Ensure the wall outlet and UPS are located near the equipment being attached for proper accessibility.
- 5. With the UPS unit turned off and unplugged, connect your sump pump into the battery power supplied outlet closest to the top of the unit. This unit will work with sump pumps up to 1/2 HP in size. DO NOT plug any additional equipment into the UPS, as any additional power demands may overload and damage the UPS.



- 6. Plug the UPS into a 2-pole, 3-wire grounded receptacle (wall outlet). Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands (e.g. air conditioner, copier, etc...). The warranty prohibits the use of extension cords, outlet strips, and surge strips.
- 7. Press the power switch to turn the unit on. The Power On indicator light will illuminate and the unit will "beep". If an overload is detected, an audible alarm will sound and the unit will emit one long beep. To correct this, turn the UPS off and ensure that the sump pump is no large than 1/2 HP in size and that no other devices are plugged into the unit. Make sure the circuit breaker is depressed and then turn the UPS on.
- To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.
- To store the UPS for an extended period, cover it and store with the battery fully charged. While in storage, recharge the battery every three months to ensure battery life.

BASIC OPERATION

1. Power Switch

Used as the master on/off switch for equipment connected to the battery power supplied outlets. (Please refer to the *Function Setup Guide* for more information.)

2. Power On Indicator

This LED is illuminated when the utility power is normal and the UPS outlets are providing power, free of surges and spikes.

3. LCD module display

The LCD display shows all the UPS information using icons and messages. For more information please review the "Definitions for Illuminated LCD Indicators" section below.

-continued

IMPORTANT SAFETY WARNINGS (SAVE THESE INSTRUCTIONS)

This manual contains important safety instructions. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate your UPS.

CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range).

CAUTION! To reduce the risk of electric shock, do not remove the cover except to service the battery. Turn off and unplug the unit before servicing the batteries. There are no user serviceable parts inside except for the battery.

CAUTION! Hazardous live parts inside can be energized by the battery even when the AC input power is disconnected.

CAUTION! The UPS must be connected to an AC power outlet with fuse or circuit breaker protection. Do not plug into an outlet that is not grounded. If you need to de-energize this equipment, turn off and unplug the unit.

CAUTION! To avoid electric shock, turn off the unit and unplug it from the AC power source before connecting equipment to the unit.

CAUTION! To reduce the risk of fire, connect only to a circuit provided with 20 amperes maximum branch circuit over current protection in accordance with the National Electric Code, ANSI/NFPA 70.

CAUTION! Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer / Data Processing Equipment, ANSI/NFPA 75.

CAUTION! Do not dispose of batteries in a fire. The batteries may explode.

CAUTION! Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT!

CyberPower Systems does not sell products for life support or medical applications. DO NOT use in any circumstance that would affect operation and safety of life support equipment, any medical applications or patient care.

DO NOT USE WITH OR NEAR AQUARIUMS!

To reduce the risk of fire or electric shock, do not use with or near an aquarium. Condensation from the aquarium can cause the unit to short out.

DO NOT USE THE UPS ON ANY TRANSPORTATION!

To reduce the risk of fire or electric shock, do not use the unit on any transportation such as airplanes or ships. The effect of shock or vibration caused during transit and the damp environment can cause the unit to short out.

INSTALLING YOUR UPS SYSTEM

UNPACKING

Inspect the UPS upon receipt.
The box should contain the following:

- (a) UPS unit
- (b) User's manual
- (c) USB A+B type cable (d) Function Setup Guide

PowerPanel® Personal software is available on our website. Please visit www.cyberpowersystems.com and go to the Software Section for a free download.

AUTOMATIC VOLTAGE REGULATOR

The A1500SP1 stabilizes inconsistent utility power to nominal levels that are safe for equipment. Unstable utility power can be damaging to important data and hardware. With Automatic Voltage Regulation (AVR), damaging voltage levels are corrected to safe levels. AVR automatically increases low utility

power to a consistent and safe 110/120 volts.



BASIC OPERATION - continued

4. Display/Select Button

The button can be used to select the LCD display contents including Input Voltage, and output Voltage. Short press the button to scroll down the function menu. Pressing the button for 3 seconds will keep the LCD display always on or turn the LCD display off while in AC/Utility power mode. (Please refer to the *Function Setup Guide* for more information.)

5. Mute/Enter Button

Holding the button for more than 3 seconds will silence the alarm. Short press the ENTER button to confirm the setting. After the setting has been confirmed, the LCD screen will stop flashing. (Please refer to the Function Setup Guide for more information.)

6. Battery and Surge Protected Outlet

The UPS has one battery powered/surge suppression outlet to ensure temporary uninterrupted operation of your sump pump during a power failure.

7. Circuit Breaker

Located on the back of the UPS, the circuit breaker serves to provide overload and fault protection.

8. Serial/USB Ports to PC

The USB port allows connection and communication between the USB port on the computer and the UPS unit.

9. Communication Protection Ports

Communication protection ports, bi-directional, will protect a 10/100/1000 Ethernet connection (RJ45).

10. Wiring Fault Indicator (red)

This LED indicator will illuminate to warn the user that a wiring problem exists, such as bad ground, missing ground or reversed wiring. If this is illuminated, disconnect all electrical equipment from the outlet and have an electrician verify the outlet is properly wired. The UPS will not provide surge protection without being plugged into a grounded and properly wired wall outlet.

11. Coax/Cable/DSS Surge Protection

The Coax/Cable/DSS protection ports will protect any cable modem, CATV converter, or DSS receiver.

REPLACING THE BATTERY

Replacement of batteries located in an **OPERATOR ACCESS AREA**

- When replacing batteries, replace with the same number of the following battery: CyberPower / RB1290X2 for A1500SP1.
- CAUTION! Risk of Energy Hazard, 24V, maximum 9 Ampere hour battery. Before replacing batteries, remove conductive jewelry such as chains, wrist watches, and rings. High energy through conductive materials could cause severe burns.
- 3. **CAUTION!** Do not dispose of batteries in a fire. The batteries may explode.
- 4. **CAUTION!** Do not open or mutilate batteries. Released material is harmful to the skin and eyes. It may be toxic.
- CAUTION! A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:
 Remove watches rings, or other metal
- objects.
- (2) Use tools with insulated handles.

CAUTION - RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATIONS.

REPLACING THE BATTERY - continued

TO REPLACE THE BATTERY

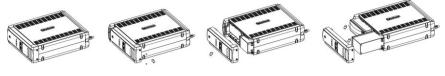
- 1. Turn off and unplug all connected equipment.
- 2. Turn the UPS off and unplug it from the AC power source.
- 3. Turn the UPS on its side.
- 4. Remove the front panel retaining screws located on the bottom of the UPS.
- 5. Slide the battery compartment cover (front panel) completely off of the unit.
- 6. Disconnect the battery wires from the batteries.
- 7. Remove the batteries from the compartment.
- 8. Install the replacement batteries by connecting the red wire (+) and black wire (-) to the same color connectors from both the upper and lower battery pack. Note: Only use new

batteries for replacement and both batteries should be replaced at the same time to ensure maximum life span.

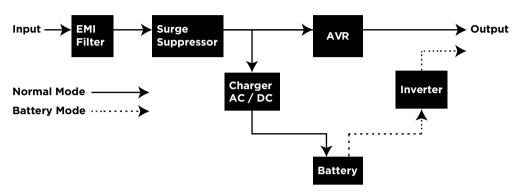
- 9. Put the batteries back into the compartment.
- Slide back the battery compartment cover and tighten the retaining screws.
- 11. Recharge the UPS for 8-16 hours to fully charge the battery.

REMINDER:

Batteries are considered HAZARDOUS WASTE and must be disposed of properly. Most retailers that sell lead acid batteries collect used batteries for recycling, as required by local regulations.



SYSTEM FUNCTION BLOCK DIAGRAM



TROUBLESHOOTING

Problem	Possible Cause	Solution
Circuit breaker button is projecting from the back of the unit.	Circuit breaker has been tripped due to an overload.	Turn the UPS off and unplug the connected equipment. Wait 10 seconds, reset the circuit breaker by pressing the button, and then turn the UPS on.
The UPS does not perform expected runtime.	Battery not fully charged.	Recharge the battery by leaving the UPS plugged in.
	Battery is worn out.	Contact CyberPower Systems about replacement batteries at: cyberpowersystems.com/support.

DEFINITIONS FOR ILLUMINATED LED INDICATORS - continued

6. AVR (Automatic Voltage Regulation) icon:

This icon appears whenever your UPS is automatically correcting low AC line voltage without using battery power. This is a normal, automatic operation of your UPS, and no action is required on your part.

7. SILENT MODE icon:

This icon appears whenever the UPS is in silent mode.

8. OVER LOAD icon:

This icon appears and an alarm sounds to indicate the battery-supplied outlets are overloaded. To clear the overload, unplug your equipment from the outlet until the icon turns off and the alarm stops.

9. FAULT icon:

This icon appears if there is a problem with the UPS, Contact CyberPower Systems at for further help and support.

E01: Charger Fault - Overcharge (Contact CyberPower Systems for support.) E02: Charger Fault - No Charge (Contact CyberPower Systems for support.) **E11: Battery Overvoltage**

(Contact CyberPower Systems for support.)

E21: Battery Output Short Fault (Turn on the UPS again.)

E22: Battery Mode or AC/Utility Power Mode Overload Fault (Unplug at least one piece of equipment from battery outlets and turn the UPS on again.)

10. BATT. CAPACITY meter:

This meter displays the approximate charge level (in 20% increments) of the UPS's internal battery. During a power outage or severe planned power suppression, the UPS switches to battery power, the BATTERY icon appears, and the charge level decreases.

11. LOAD CAPACITY meter:

This meter displays the approximate output load level (in 20% increments) of the UPS battery outlets.

For more information about functions setup, please refer to the Function Setup Guide.

TECHNICAL SPECIFICATIONS

Model	A1500SP1
Capacity	1500 VA / 900 W
Nominal Input Voltage	120 V
Input Frequency	60 Hz ± 3 Hz
On-Battery Output Voltage	120 VAC ± 5%
Max. Load for UPS Outlets	1500 VA / 900 W
On-Battery Output Wave Form	Simulated Sine Wave
Operating Temperature	+ 32°F to 104° F / 0° C to 40° C

- continued

TROUBLESHOOTING - continued

Problem	Possible Cause	Solution	
The UPS will not turn on.	The on/off switch is designed to prevent damage from rapidly turning it off and on.	Turn the UPS off. Wait 10 seconds and then turn the UPS on.	
	The unit is not connected to an AC outlet.	The unit must be connected to a 120V 60Hz outlet.	
	The battery is worn out.	Contact CyberPower Systems about replacement batteries at: cyberpowersystems.com/support.	
	Mechanical problem.	Contact CyberPower Systems at: cyberpowersystems.com/support.	
PowerPanel* Personal is inactive (all icons are gray).	The USB cable is not connected.	Connect the USB cable to the UPS unit and an open USB port on the back of the computer.	
	The USB cable is connected to a bad USB port.	Check for a different USB port and plug the cable in.	
	The unit is not providing battery power.	Shutdown your computer and turn the UPS off. Wait 10 seconds and turn the UPS back on. This should reset the unit.	

Additional troubleshooting information can be found at "Support" at www.CyberPowerSystems.com

DEFINITIONS FOR ILLUMINATED LED INDICATORS

1. INPUT voltage meter:

This meter measures the AC voltage that the UPS system is receiving from the utility wall outlet. The UPS is designed, through the use of automatic voltage regulation, to continuously correct output voltage to connected equipment to a safe 120 voltage output range. In the event of a complete power loss, severe planned power suppression, or over-voltage, the UPS relies on its internal battery to supply consistent 110/120 output voltage. The INPUT voltage meter can be used as a diagnostic tool to identify poor-quality input power.

2. OUTPUT voltage meter:

This meter measures, in real time, the AC voltage that the UPS system is providing to the computer, such as normal line mode, AVR mode, and battery backup mode. (Note: The OUTPUT voltage meter shows the status of the battery backup outlets.)

3. ESTIMATED RUN TIME:

This displays the run time estimate of the UPS with current battery capacity and load.



The LCD display indicates a variety of UPS operational conditions. All descriptions apply when the UPS is plugged into an AC outlet and turned on or when the UPS is on battery.

6

4. NORMAL icon:

This icon appears when the UPS is working under normal conditions.

5. BATTERY icon:

During a severe planned power suppression or power outage, this icon appears and an alarm sounds (two short beeps followed by a pause) to indicate the UPS is operating from its internal batteries. During a prolonged planned power suppression or power outage, the alarm will sound continuously to indicate the UPS's batteries are nearly out of power. You should save files and turn off your equipment immediately or allow the software to shut the system down.

-continued

TECHNICAL SPECIFICATIONS - continued

Model	A1500SP1	
Operating Relative Humidity	0 to 90% non-condensing	
Size (W x H x D)	3.9" x 11" x 14" / (100 x 280 x 355 mm)	
Net Weight	25 lbs / 11.3 kg	
Battery Type	CyberPower / RB1290X2	
Typical Battery Recharge Time	8 hours	
Typical Battery Life	3 to 6 years, depending on number of discharge/recharge cycles	
Recommended Battery	Sealed Maintenance Free Lead Acid Battery	
Safety Approvals	UL1778(UPS), cUL107., FCC/DoC Class B	

CYBERPOWER GREENPOWER UPS™ TECHNOLOGY

Advanced Energy-Saving Design

The GreenPower UPS™ has a high-efficiency charger, which makes it the most energy-efficient UPS in its class. The advanced high-frequency charging system significantly improves charging efficiency and conserves energy. As a result of this advanced design, the GreenPower UPS™ uses less energy compared to competitive models. The GreenPower UPS™ is manufactured in accordance with the Restriction on Hazardous Substances (RoHS) directive making it one of the most environmentally-friendly UPS systems on the market today.



FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
 Increase the separation between the equipment and receiver.

Increase the separation between the equipment and receiver.
 Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

LIMITED WARRANTY AND CONNECTED EQUIPMENT GUARANTEE

Please visit www.CyberPowerSystems.com for a copy of the Limited Warranty and Connected Equipment Guarantee.

Where Can I Get More Information?

where can leet more information:
The application of the United Nations Convention of Contracts for the International Sale of Goods is expressly excluded.
CyberPower is the warrantor under this Limited Warranty. For further information please feel free to contact CyberPower at:
Cyber Power Systems (USA), Inc. 4241 12th Ave E., STE 400, Shakopee, MN 55379;
call us at (877) 297-6937; or submit a web ticket online at cyberpowersystems.com/support.

Cyber Power Systems (USA), Inc. encourages environmentally sound methods for disposal and recycling of its UPS products. Please dispose and/or recycle your UPS and batteries in accordance to the local regulations of your state.

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