**CS135XLU User's Manual**

**PRODUCT REGISTRATION**

Thank you for purchasing a CyberPower product. Please take a few minutes to register your product at www.cpsww.com/registration. Registration confirms 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 to receive the benefits of CyberPower ownership.

**IMPORTANT SAFETY INSTRUCTIONS**

(SAVE THESE INSTRUCTIONS)

This Manual Contains Important Instructions that should be followed during Installation and Maintenance of the UPS and batteries.

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

2. **CAUTION:** To reduce the risk of electric shock, do not remove the cover except to service the battery. The unit does not contain serviceable parts inside the cover except for the battery. 

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

4. **CAUTION:** The UPS must be connected to an AC power source with fuse or circuit breaker protection. Do not plug into an outlet that is not protected.

5. **CAUTION:** To avoid electric shock, turn the unit off and unplug it from the AC power source before servicing the battery.

6. **CAUTION:** To reduce the risk of fire, connect only a circuit provided with 20 amperes maximum circuit breaker or circuit protection in current protection in accordance with Underwriters Laboratories' #210 Standard for Household Equipment.

7. **DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT!** CyberPower Systems does not sell products for your use in medical applications. Do not use in any circumstance that would affect the operation and safety of life support equipment; medical applications; or patient care.

8. **DO NOT USE WITH OR NEAR AQUARIUM!** To reduce the risk of fire or electric shock, do not use with or near an aquarium. Condensation from an overflow is detected, an audible alarm will sound, and the UPS will shut down. The large capacity UPS will not be able to keep a patient's respirator or other life sustaining equipment running.

9. **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 airplane or ships. The effect of shock or vibration caused during transit and the damp environment cause the unit to shut off (red). To prevent this from happening, please make sure to keep the UPS out of the damp environment.

**INSTALLING YOUR UPS SYSTEM**

**INTRODUCTION**

Thank you for selecting a CyberPower Systems UPS product. This UPS is designed to provide unpowered power protection, operation and performance during the lifetime of the product.

**UNPACKING**

Impact checked UPS user receipt. The box should contain the following:

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

*PowerPnP User's Edition software is available on our website. Please visit www.cpsww.com and go to the Software Section for free download.

**OVERVIEW**

The CST135XLU provides complete power protection from utility power that's not consistent with your computer's power needs. The UPS provides long lasting battery backup during power outages while maintaining battery life through automatic power management. The CST135XLU ensures consistent power to your computer system during a power failure, protects the computer system against voltage and current surges, and shuts down your computer system during a utility power loss.

**AUTOMATIC VOLTAGE REGULATOR**

The CST135XLU's Automatic Voltage Regulator (AVR) maintains voltage levels to normal levels that are safe for equipment. Inconsistent/irregular utility power may be damaging to important data files and hardware. But with Automatic Voltage Regulation (AVR), damaging voltage levels are corrected to safe levels. AVR automatically increases low utility power or decreases high utility power to a consistent and safe 110/120 volts.

**HOW TO DETERMINE THE POWER REQUIREMENTS OF YOUR EQUIPMENT**

1. First, ensure that the equipment plugged into the unit does not exceed the UPS's rated capacity (1300WATT) for CST135XLU. If the rated capacity of the unit is exceeded, an overload condition may occur and cause the UPS to shut down or the circuit breaker to trip.

2. There are many factors that can affect the amount of power that your computer system will require. It is suggested that the load placed on the battery outlets not exceed 80% of the unit's capacity.

**HARDWARE INSTALLATION REQUIREMENTS**

1. 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.

2. Your UPS is equipped with an auto-charge feature. When the UPS is plugged into an AC outlet, the battery will automatically charge when the UPS is turned on or off.

3. If an overload is detected, the audible alarm will sound, and the UPS will shut down (red). To prevent the UPS from shutting down when overloaded, please check the load placed on the battery outlets.

4. To protect a fax, phone or modem, connect a telephone cable or network cable from the wall jack to the IN port of the UPS. Connect a telephone cable or network cable from the OUT port of the UPS to your fax machine, telephone, modem, or network devices.

5. Plug the UPS into a 3-pole, 3-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.

6. Press the power switch to turn on the unit. The On/Off indicator light will illuminate and the unit will "beep". The On/Off indicator light will illuminate and the unit will "beep" when the UPS is turned on.

7. The CST135XLU uses a power cord that has a NEMA 5-15P connector (red) and a NEMA 5-15R connector (black). The red connector will plug into the AC outlet. The black connector must be plugged into a grounded outlet.

8. To store the UPS for an extended period, cover it and store the battery fully charged. While in storage, recharge the battery every three months to ensure battery life.

9. Ensure the wall outlet and UPS are located near the equipment being attached for proper accessibility.

**DESCRIPTION**

1. **Power Switch**

   Used as the master on/off switch for equipment connected to the battery power supplied outlets.

   (Refer to the Function Setup Guide for more information.)

   Power On Indicators

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

Read the following terms and conditions carefully before using the CyberPower CST-1500US (the "Product"). By using the Product you consent to be bound by and become a party to the terms and conditions of this Limited Warranty and Connected Equipment Guarantee (the "Warranty"). If you do not agree to the terms and conditions of this Warranty, you should return the Product for a full refund prior to using it.

Who is Providing this Warranty?
CyberPower Systems (USA), Inc. ("CyberPower") 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. It also covers equipment that was connected to the Product and damaged because of the failure of the Product.

What is the Period of Coverage?
This warranty covers the Product for three years and connected equipment for as long as you own the Product.

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

How Do You Get Warranty Service?
1. Before contacting CyberPower, identify your Product model number, the Purchase Date, and each item of Connected Equipment (e.g., Computer tower, Computer Monitor, Ink Jet Printer, Cable Modem, etc.).

2. Visit our web site [http://www.cyberepower.com or call us at 1(877) 237-6337].

3. If your product requires warranty service you must provide a copy of your dated purchase receipt or invoice.

How Do You Open a Connected Equipment Claim?
1. Call us at (877) 237-6337 or write to us at Cyber Power Systems (USA), Inc., 4241 12th Ave. E., ST. JOE, 98350, or send us an e-mail message at client@cyberpower.com, within 10 days of the occurrence.

2. When you contact CyberPower, identify the Product, the Purchase Date, and the item(s) of Connected Equipment. Have information on all applicable insurance or other resources of recovery/payment that are available to the Initial Customer and request a Claim Number.

3. You must provide a dated purchase receipt (or other proof of the original purchase) and provide a description of the damage to your connected equipment.

4. Pack and ship the product to CyberPower and, if required, the item(s) of Connected Equipment, a repair cost estimate for the damage to the Connected Equipment, and all claim forms that CyberPower provides to you. Show the Claim Number on the shipping label or include it with the product.

5. CyberPower will pay all shipping costs, you are responsible for packaging and shipment, and you must pay the cost of the repair estimate.

How Long Do I Have To Make A Claim?
All claims must be made within ten days of the occurrence.

What Will We Do To Correct Problems?
CyberPower will inspect and examine the Product.

1. 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 repair or decide 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 price includes state and local sales tax).

2. If it appears that our Product failed to protect any equipment plugged into it, we will also send you forms for making your claim for the connected equipment.

3. We will repair or replace the equipment that was damaged because of the failure of our Product or pay you the difference between the fair market value (NOT REPLACEMENT COST) of the equipment at the time of the damage. We will use Unison Blue Book or another third-party valuation guide, or eBay, Craigslist, or other source to establish that amount. Our maximum liability is limited to $500,000 for the CST-1500US.

Who Pays For Shipping?
We pay when we send items to you, you pay when you send items to us.

What isn’t covered by the warranty?
1. This Warranty does not cover any software that was damaged or needed to be replaced due to the failure of the Product or any data that is lost as a result of the failure or restoration of data or records, or the reimbursability of software.

2. This Warranty does not cover to 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 leaves printers, apparatus, medical or the support devices, etc.

What are the Limitations?
The sole and exclusive remedies of the Initial Customer are those provided by this Warranty.

1. This Warranty does not apply unless the Product and the equipment that was connected to it were correctly powered 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 external connectors, another Product or device similar to the Product, surge suppressor, or power tap. Any such installation voids the Limited Warranty.

3. The Product and equipment connected to it must have been used properly in a suitable and proper environment and in conformance with any license, instruction manual, or warnings provided with the Product and the equipment connected to it.

4. The Product must have been used at all times with the specifications on the Product’s VA-capacity.

The Product was designed to eliminate drowning and damaging effects of momentary (less than 1ms) voltage spikes or impulses from lightning or other power transients. It will be shown to have a spike voltage lasting longer than 3ms has occurred, the occurrence will be deemed outside the rated capabilities of the Product and the Limited Warranty is void. CyberPower Does Not Cover or Undertake Any Liability in Any Event for Any of the Following:

1. Loss of or damage to data, records, or software or the restoration of data or records, or the reimbursability of software.

2. Damage from causes other than AC Power Line Transients, spikes, or surges on properly grounded, installed and code-compliant 120 volt power lines in the United States and Canada; transients, spikes or surges on standard telephone lines, PBX telephone equipment lines or base 110 Ethernet lines, when properly installed and connected. (This exclusion, applies, for example, to fluctuations in data transmission or reception, by CATV or RF transmission or fluctuations, or by transients in such transmission.)

3. Damage from any circumstance described as above except with respect to the Product.

4. Damages from fire, flood, wind, rain, rising water, leakage or blockages of plumbing, abuse, misuse or alteration of either the product or the Connected Equipment.

CyberPower excludes any liability for personal injury under the Limited Warranty and Connected Equipment Guarantee. CyberPower excludes any liability for direct, indirect, special, incidental or consequential damages, whether for damage to or loss of any property (NOT REPLACEMENT COST) of the equipment at the time of the damage. CyberPower expressly disclaims any express or implied warranty of fitness for High Risk Activities as it was not designed or used in any Product in any High Risk Activities or with Aquariums. Any Other Use IS IMPROPER AND IS A MISUSE OF THE PRODUCT.

Where can I Get More Information?

CyberPower is the warrantor under the Limited Warranty.

For further information please feel free to contact CyberPower at CyberPower Systems (USA), Inc. 4241 12th Ave. E, Suite 400, Shaker Park, MN 55579; call us at 1(877) 237-6337; or send us an e-mail message at claims@cyberepower.com. CyberPower Systems encourages environmentally sound methods for disposal and recycling of its UPS products. Please dispose of or recycle your UPS and batteries in accordance to the local regulations of your state. All rights reserved. Reproduction without permission is prohibited.

TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit breaker button is projecting from the back of the unit.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Circuit breaker has tripped due to overload.</td>
<td>Turn the UPS off and replace tripped breaker. Reset the circuit breaker by depressing the button, and then turn the UPS on.</td>
<td></td>
</tr>
<tr>
<td>The UPS does not perform expected runtime.</td>
<td>Battery not fully charged.</td>
<td>Replace battery.</td>
</tr>
<tr>
<td>UPS is not plugged in.</td>
<td>Battery is worn out.</td>
<td></td>
</tr>
<tr>
<td>UPS will not turn on.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The UPS will not turn off.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PowerWare® Personal Edition is torted (all icons are gray).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB power port over current protection fault.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UPS cannot be turned on and turns off.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Troubleshooting information can be found under “Support” at www.cyberepower.com.

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>CST-1500US</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>1500VA / 900W</td>
</tr>
<tr>
<td>Nominal Input Voltage</td>
<td>120V</td>
</tr>
<tr>
<td>Input Frequency</td>
<td>50 Hz / 60 Hz</td>
</tr>
<tr>
<td>On-Board Output Voltage</td>
<td>120V ± 2%</td>
</tr>
<tr>
<td>Max. Load for UPS Cables (10 Outlets)</td>
<td>1.5 Amp</td>
</tr>
<tr>
<td>Max. Load for Full-Time Surge Protection outlets (10 Outlets)</td>
<td>10 Amp</td>
</tr>
<tr>
<td>On-Board Output Wave Form</td>
<td>Simulated Sine Wave</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>+32°F to +104°F / 0°C to 40°C</td>
</tr>
<tr>
<td>Operating Relative Humidity</td>
<td>0 to 95% non-condensing</td>
</tr>
<tr>
<td>Size (W x H x D)</td>
<td>23.0” x 1.8” x 13.7” (584 x 46 x 348 mm)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>22.83 lbs / 10 kg</td>
</tr>
<tr>
<td>Battery Type</td>
<td>CyberPower / RB1270X2C</td>
</tr>
<tr>
<td>Typical Battery Recharge Time</td>
<td>8 hours for 90% capacity from full discharge</td>
</tr>
<tr>
<td>Typical Battery Life</td>
<td>3 to 6 years, depending on number of discharge/recharge cycles</td>
</tr>
<tr>
<td>Recommended Battery</td>
<td>Sealed Maintenance Free Lead Acid Battery</td>
</tr>
<tr>
<td>Safety Approvals</td>
<td>UL1778/UPS, UL1971, FCC/Class B</td>
</tr>
</tbody>
</table>

SYSTEM FUNCTIONAL BLOCK DIAGRAM

Advanced Energy-Saving Patented Bypass Technology
CyberPower’s patented GreenPower UPS™ with Bypass Technology reduces UPS energy costs by up to 75% compared to conventional UPS models. Even when utility power is normal, conventional UPS models constantly pass power through a transformer. By contrast, under normal conditions the advanced circuitry of a GreenPower UPS™ bypasses the transformer. As a result, the power efficiency is significantly increased while decreasing waste heat, using less energy, and reducing energy costs.

When an abnormal power condition occurs, the GreenPower UPS™ automatically yanırs power through its transformer to regulate voltage and provide “bypass” power. Since utility power is normal over 80% of the time, the GreenPower UPS™ operates primarily in its efficient bypass mode.

The GreenPower UPS™ is also manufactured in accordance with the Restriction on Hazardous Substances (RoHS) directive making it one of the most environmentally friendly on the market today.

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Visit our web site [http://www.cyberepower.com or call us at 1(877) 237-6337].