CP1350PFCLCD
CP1500PFCLCD
User’s Manual

IMPORTANT SAFETY WARNINGS

(SAVE THESE INSTRUCTIONS)

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

1. Power Switch

   Used as the master on/off switch for equipment connected to the battery powered supply outlets.

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

   High resolution and intelligent LCD display shows all the UPS information using icons and messages. For more information please refer to the "Definitions for Illuminated LCD Indicators" section below.

4. Display switch

   The switch can be used to select the LCD display contents including Input Voltage, Output Voltage, and Estimated Run Time. The toggle frequency is set to one time per 5 second. Press the switch to roll down the function menu. Pressing the switch for 2 seconds will turn the LCD display on or off at an AC/Utility power mode.

5. Silence Alarm switch

   The toggle frequency is set to one time per 5 second. Press the switch to roll up the function menu. Holding the switch for more than 2 seconds while running on battery will silence the buzzer.

6. Control switch

   Press this Control switch for 3 seconds in AC/Utility Power Mode to perform a Self Test of the battery.

7. USB Power Ports

   The USB Power Ports provide 5V 1A power output.

8. Battery and Surge Protected Outlets

   The unit has four battery-powered surge suppressors for selected equipment to ensure temporary unperturbed operation of your equipment during a power failure. (DO NOT plug in a printer, paper shredder, copier, space heater, vacuum, surge pump or other large electrical devices into the “Battery and Surge Protected Outlets”)

9. Full-Time Surge Protection outlets

   The unit has five surge protection outlets.

10. Circuit Breaker

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

11. Serial/USB to PC Ports

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

12. Communication Protection Ports

   Communication protection ports will protect any standard modem, fax, telephone line, network or Ethernet connection (RJ11/RJ45).

13. 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 unit will not provide surge protection being pluged into a grounded and properly wired wall outlet.

14. Coax/DSL Surge Protection

   The Coax/DSL protection ports protect any coax cable modem, CATV converter, or DSL receiver.

15. Overload Switch for AC Adaptation

   The unit has two overload switches to allow AC power adapter plugs to be plugged into the UPS without overloading the unit.

REPLACING THE BATTERY

Replacement of batteries located in an OPERATOR ACCESS AREA:

1. When replacing batteries, replace with the same number of the following battery: CyberPower / RB1270G2A for the CP1350PFCLCD / CyberPower / RB1280G2A for the CP1500PFCLCD.

2. Disconnect the Battery Energy Hazard, 24 V, minimum 2 hour-hour battery. Before replacing batteries, remove conductive jewelry such as chains, wrist watches, and rings. High energy conducted through these materials could cause severe burns.

3. CAUTION:

   Do not disassemble or modify batteries. Released material is harmful to the skin and eyes. It may be toxic.

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

BATTERY REPLACEMENT PROCEDURE:

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 onside.

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. Remove the battery from the compartment.

7. Place the battery on a table.

8. CP1350PFCLCD: Install the replacement batteries by connecting the red (+) and white (-) wires to the same color connectors from the battery pack.

   CP1500PFCLCD: Install the replacement batteries by connecting the wire harnes (composed of one red wire and one white wire) to the connection from the battery pack.

9. Put the batteries back into the compartment.

10. Slide back the battery compartment cover and tighten the retaining screws.

11. Recharge the UPS for 6-12 hours to fully charge the battery.

INFORMATION:

RENTERND: Batteries are considered HAZARDOUS WASTE and must be disposed of properly. Most retailers will sell lead acid batteries collected used for recycling, so check with local regulations.

DEFINITIONS FOR ILLUMINATED LCD INDICATORS

1. ONLINE: The UPS is supplying utility power to connected equipment.

2. BATTERY: During a severe transient or blackout, 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 transient or blackout, the alarm will beep repeatedly every 1.5 seconds and the BATTERY CAPACITY meter shows 0% capacity segment shaded. The capacity depends on how much load added and the runtime left (red) indicates the batteries are nearly out of power. You should save files and turn off your equipment immediately or allow the softwar to shut the system down.

3. Energy-Saving: The UPS is in energy-saving bypass mode. See “CyberPower SmartPower LCD ™ Technology” section for more information.

4. LOAD capacity / Sensitivity setup

   This meter displays the approximate output load (ASLA, in percentage) on the UPS battery outlets. It can also be sensitivity setup meter: you are in programming mode.

5. OVERVOLTAGE

   Displays the unit’s current output voltage compared to the battery’s nominal voltage. A reading in the range of 105% to 110% is normal range. A reading above 110% is an over voltage warning.

6. FAULT: This icon appears if there is a problem with the UPS. Press the POWER button to turn off the UPS.

   a) Battery Mode or AC/Utility Power Mode Overload

   b) Battery Overload Fault (Turn on the UPS again)

   c) Charger Failure (Contact CyberPower Systems for support)

7. OVERLOAD

   This displays the unit’s current output voltage compared to the battery’s nominal voltage. A reading in the range of 105% to 110% is normal range. A reading above 110% is an over voltage warning.

8. BATTERY capacity

   This meter displays the approximate charge level (in percentage) of the UPS’s internal battery. During a blackout or severe transient, the UPS switches to battery power, the BATTERY icon appears, and the charge level decreases.

9. ESTIMATED RUNTIME:

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

10. OUTPUT meter:

   This meter measures, in real time, the AC voltage that the UPS is providing to the computer, such as normal AC

   a) 80 - 130 VAC

   b) 47 Hz - 63 Hz

   c) 6.0 A maximum

   d) 1000VA/1000W maximum

   e) 0.8 Power Factor (sin wave)

   f) 120VAC

   g) 110VAC

   h) 230VAC

   i) 220VAC

   j) 50Hz

   k) 60Hz

   l) 100Hz

   m) 120Hz

   n) 140Hz

   o) 160Hz

   p) 180Hz

   q) 200Hz

   r) 220Hz

   s) 240Hz

   t) 260Hz

   u) 280Hz

   v) 300Hz

   w) 320Hz

   x) 340Hz

   y) 360Hz

   z) 380Hz

   AA) 400Hz

   BB) 420Hz

   CC) 440Hz

   DD) 460Hz

   EE) 480Hz

   FF) 500Hz

   GG) 500Hz

   HH) 550Hz

   II) 600Hz

   JJ) 650Hz

   KK) 700Hz

   LL) 750Hz

   MM) 800Hz

   NN) 850Hz

   OO) 900Hz

   PP) 950Hz

   QQ) 1000Hz

   RR) 1050Hz

   SS) 1100Hz

   TT) 1150Hz

   UU) 1200Hz

   VV) 1250Hz

   WW) 1300Hz

   XX) 1350Hz

   YY) 1400Hz

   ZZ) 1450Hz

   AA) 1500Hz
line, AVR, and battery backup mode. (Note: The OUTPUT meter shows the status of the battery backup output in terms of load, frequency, and voltage.)

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

12. EVENT: This meter records the number of power outages.

13. MUTE: This icon appears whenever the UPS is in silent mode. The alarm does not beep during silent mode but the battery backup remains on.

14. AVR (Automatic Voltage Regulation): This icon appears whenever your UPS is automatically correcting the AC line voltage without using battery power. This is a normal, automatic operation of your UPS, and no action is required on your part.

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

TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit breaker fuse is burning</td>
<td>Circuit breaker fuse is tripped due to overload</td>
<td>Turn off the UPS and unplug all loads; wait 10 seconds, reset the circuit breaker by replacing the fuse, and then turn on the UPS.</td>
</tr>
<tr>
<td>The UPS does not perform expected runtime</td>
<td>Battery is not fully charged</td>
<td>Recharge the battery by plugging in the UPS plug in.</td>
</tr>
<tr>
<td>The UPS is not turned on</td>
<td>Battery is warm</td>
<td>The UPS is designed to start by itself within 10 seconds when under load.</td>
</tr>
<tr>
<td>The UPS will not turn on</td>
<td>The UPS is not plugged into an AC outlet</td>
<td>Turn off the UPS, wait 10 seconds and then turn the UPS on.</td>
</tr>
<tr>
<td>The UPS is not turned on</td>
<td>The UPS is not connected to a AC outlet</td>
<td>The unit must be connected to a 110/120V AC outlet.</td>
</tr>
<tr>
<td>The UPS is not turned on</td>
<td>The UPS is not providing power</td>
<td>The UPS provides power to the connected devices for a maximum of 15 minutes.</td>
</tr>
<tr>
<td>The UPS is not turned on</td>
<td>The UPS is not under load</td>
<td>Contact CyberPower Systems about replacement batteries.</td>
</tr>
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PowerPro Personal Edition is in standby (all icons are gray). Additional troubleshooting information can be found under "Support" at www.CPSW.com.

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>CP1500PFCLCD</th>
<th>CP1500PFCLCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>120Vac / 8kW</td>
<td>120Vac / 8kW</td>
</tr>
<tr>
<td>Nominal Input Voltage</td>
<td>120V</td>
<td>120V</td>
</tr>
<tr>
<td>Input Frequency</td>
<td>57 Hz to 63 Hz</td>
<td>57 Hz to 63 Hz</td>
</tr>
<tr>
<td>On-Battery Output Voltage</td>
<td>120Vac ± 5%</td>
<td>120Vac ± 5%</td>
</tr>
<tr>
<td>Transfer Time</td>
<td>4ms Typical</td>
<td>4ms Typical</td>
</tr>
<tr>
<td>Max. Load to UPS Outputs (5 Outlets)</td>
<td>13A</td>
<td>12 Amp</td>
</tr>
<tr>
<td>Max. Load to Full Surge Protection outlets (15 Outlets)</td>
<td>15A</td>
<td>15A</td>
</tr>
<tr>
<td>On-Battery Output Wave Form</td>
<td>Adaptive Sinewave</td>
<td>Adaptive Sinewave</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>+30°C to +50°C / 0°C to 40°C</td>
<td>+30°C to +50°C / 0°C to 40°C</td>
</tr>
<tr>
<td>Operating Relative Humidity</td>
<td>95% non-condensing</td>
<td>95% non-condensing</td>
</tr>
<tr>
<td>Input Sine Wave (± 3%)</td>
<td>14.1% to 15.1%</td>
<td>14.1% to 15.1%</td>
</tr>
<tr>
<td>Battery Type</td>
<td>CyberPower / FB1710GS</td>
<td>CyberPower / FB1710GS</td>
</tr>
<tr>
<td>Typical Battery Recharge Time</td>
<td>8 hours from full discharge</td>
<td>8 hours from full discharge</td>
</tr>
<tr>
<td>Typical Battery Life</td>
<td>3 to 6 years, depending on number of discharge/cycle rate</td>
<td>3 to 6 years, depending on number of discharge/cycle rate</td>
</tr>
<tr>
<td>Recommended Battery</td>
<td>Sealed Maintenance Free Lead Acid Battery</td>
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</tr>
<tr>
<td>Safety Approvals</td>
<td>UL1778, CSA 22.2 No. 1073, FCC/DoC Class B</td>
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</tr>
</tbody>
</table>

SYSTEM FUNCTIONAL BLOCK DIAGRAM

CYPHERPOWER GREENPOWER UPS™ TECHNOLOGY

Advanced Energy-Saving Patented Battery Technology
CyberPower’s patented GreenPower UPS™ with Battery 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 alternated power condition occurs, the GreenPower UPS™ automatically runs power through to regulate voltage and provide a “safe” 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 of Hazardous Substances (RoHS) directive making it one of the most environmentally-friendly on the market today.

Read the following terms and conditions carefully before using the CyberPower CP1500PFCLCD/CP1500PFCLCD (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 the Connected Equipment Guarantee (together referred to as this "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, printer, fax, scanner, internet modem, cable modem, etc.).
2. Visit our web site at http://www.cpsworld.com/support or call us at (877) 297-6307.
3. If your product requires warranty service you must provide a copy of your dated purchase receipt or invoice.

How Do You Open A Claim?
1. Call us at (877) 297-6307 or write to us at Cyber Power Systems (USA), Inc., 4241 12th Ave E., STE 400, Shaoke, MN 55379, or send an e-mail message at claims@cpsworld.com for instructions, within ten days of the occurrence.
2. When you contact CyberPower, identify the Product, the Purchase Date, and the item(s) of Connected Equipment. Have available to us at your expense or to the person from whom you purchased the Product, such as your dealer, power outlet, television, radio, home entertainment system.
3. PowerPro 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 Do I Do to Make A Claim?
CyberPower will inspect and evaluate the warranty.

If the Product is defective in materials or workmanship, CyberPower will repair or replace it at CyberPower’s expense, or, if CyberPower is unable or decides to do otherwise, return the purchase price you paid for the Product (purchase receipt showing price paid is required). In the event that CyberPower will not repair or replace the Product or refund purchase price you paid for the Product, you may return the Product in accordance with any license, instructions, or warnings provided with the Product and the Product must be returned to CyberPower Systems (USA), Inc., 4241 12th Ave E., STE 400, Shaoke, MN 55379, or send us a request for Replacement Battery at 877-297-6307, or send us a request for Replacement Battery at 877-297-6307.

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

What isn’t covered by the warranty?
1. This Warranty does not cover any software that was damaged or needs to be replaced due to the failure of the Product or any data that is not a result of a failure of the Product or the connected equipment.
2. This Warranty does not cover any software that was damaged or needs to be replaced due to the failure of the Product or any data that is not a result of a failure of the Product or the connected equipment.
3. The Product must have been repaired directly into the power source and the equipment connected to the Product must be ordered directly to death, personal injury, or severe physical or property damage, or that would affect operation or safety of any means of public transportation.
4. The Product is not for use in high risk activities or with aquariums. CyberPower does not authorize use of any Product in any high risk activities.

For further information please feel free to contact CyberPower at CyberPower Systems (USA), Inc. 4241 Ave E., STE 400, Shaoke, MN 55379; call us at (877) 297-6307; or send us an e-mail message at claims@cpsworld.com.

CyberPower Systems encourages environmentally sound methods for disposal and recycling of its UPS products.

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