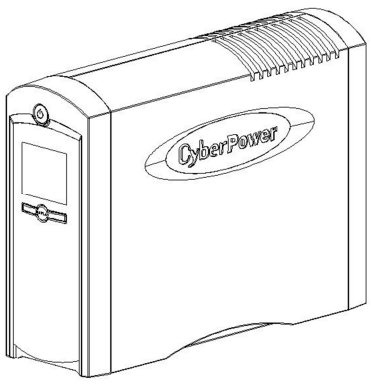
CyberPower®

Reliability. Quality. Value.



CP1350EAVRLCD-UK/CP1500EAVRLCD-UK
User's Manual

K01-0000183-01

IMPORTANT SAFETY INSTRUCTIONS

This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries. 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.

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

CAUTION! 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 the operation or safety of any life support equipment, with any medical applications, or patient care.

CAUTION! The battery can energize hazardous live parts inside even when the AC input power is disconnected.

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. There are no user serviceable parts inside, except for the battery.

CAUTION! To avoid electrical shock, turn off the unit and unplug it from the AC power source before servicing the battery or installing a computer component.

CAUTION! DO NOT USE WITH OR NEAR AQUARIUMS! To reduce the risk of fire, do not use with or near aquariums. Condensation from the aquarium can come in contact with metal electrical contacts and cause the machine 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

UNPACKING

The box should contain the following:
(1) PowerPanel® Personal Edition software (CD) x1; (2) USB cable (A+B type) x1; (3) Telephone communication cable x1; (4) IEC to IEC Power cord x1; (5) IEC to UK Power cord x1; (6) user manual x1; (7) UPS unit x1.

OVERVIEW

The CP1350EAVRLCD-UK/ CP1500EAVRLCD-UK provides automatic voltage regulation for inconsistent utility power. The CP1350EAVRLCD-UK/ CP1500EAVRLCD-UK features 1215 Joules of surge protection, and provides battery backup during power outages. The CP1350EAVRLCD-UK/ CP1500EAVRLCD-UK ensures consistent power to your computer system and its included software will automatically save your open files and shutdown your computer system during a utility power loss.

HOW TO DETERMINE THE POWER REQUIREMENTS OF YOUR EQUIPMENT

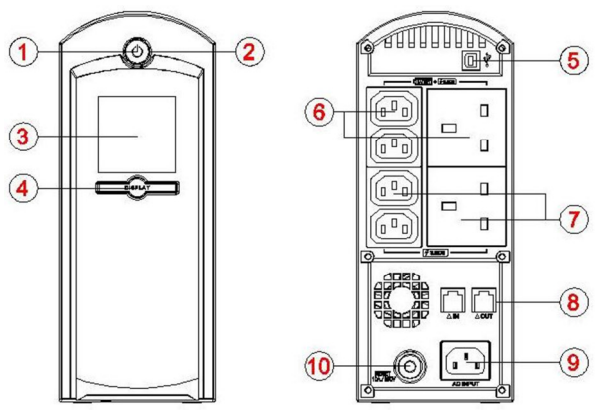
1. Make sure that the total Volt-Amp (VA) requirements of your computer, monitor, and peripheral equipment does not exceed 1350VA/1500VA.
2. Ensure that the equipment plugged into the battery power-supplied/surge outlets does not exceed the UPS unit's rated capacity (1350VA/810W for CP1350EAVRLCD-UK, 1500VA/900W for CP1500EAVRLCD-UK). If the rated unit capacities are exceeded, an overload condition may occur and cause the UPS unit to shut down and the circuit breaker to trip.

HARDWARE INSTALLATION GUIDE

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. 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 turned off.
2. If you will use the software, connect the USB cable to the USB port on the UPS.
3. With the UPS unit turned off and unplugged, connect your computer, monitor, and any other peripherals requiring battery backup into the battery power supplied outlets. Plug the other peripheral equipment (printer, scanner, speakers) into the full-time surge protection outlets. **DO NOT** plug a laser printer, paper shredder, copier, space heater, vacuum, sump pump or other large electrical device into the "Battery and Surge Protected Outlets". The power demands of these devices will overload and possibly damage the unit.
4. To protect a fax, telephone, modem line or network cable, connect a telephone cable or network cable from the wall jack outlet to the IN jack of the UPS. Then connect a telephone cable or network cable from the OUT jack on the UPS to the modem, computer, telephone, fax machine, or network device.
5. 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, refrigerator, copier, etc. Avoid using extension cords.
6. Press the power switch to turn the unit on. The power on indicator light will illuminate and the unit will "beep".
7. 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 unplug at least one piece of equipment from the battery power supplied outlets. Wait 10 seconds. Make sure the circuit breaker is depressed and then turn the UPS on.
8. To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.
9. To store your UPS for an extended period, cover it and store with the battery fully charged. Recharge the battery every three months to ensure battery life.

BASIC OPERATION

DESCRIPTION



① **Power Switch**
Used as the master on/off switch for equipment connected to the battery power supplied outlets.

② **Power On Indicator**
This LED is under the power switch. It illuminates when 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 with icons and messages. For more information please review the "Definitions for Illuminated LCD Indicators" section.

④ **LCD Display Toggle/Selected 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 second. Holding the switch for more than two seconds while running on battery will silence the buzzer.

⑤ **USB Port to PC**
The USB port allows communication from the UPS to the computer. The UPS communicates its status to the PowerPanel® Personal Edition software when connected with a USB port.

⑥ **Battery and Surge Protected Outlets**
The unit has three battery powered/surge protected outlets for connected equipment and ensures temporary uninterrupted operation of your equipment during a power failure.

⑦ **Full-Time Surge Protection Outlets**
The unit has three always on surge suppression outlets.

⑧ **Communication Protection Ports**
Communication protection ports will protect any standard modem, fax, telephone line, broadband network or Ethernet connection.

⑨ **AC Input**
Connect the AC Power cord to a properly wired and grounded outlet.

⑩ **Circuit Breaker**
Located on the back of the UPS, the circuit breaker serves to provide overload and fault protection.

BATTERY REPLACEMENT

CAUTION! Read and follow the **IMPORTANT SAFETY INSTRUCTIONS** before servicing the battery. **Service the battery under the supervision of personnel knowledgeable of batteries and their precautions.**

CAUTION! Use only the specified type of battery. See your dealer for replacement batteries.

CAUTION! The battery may present the risk of electrical shock. Do not dispose of batteries in a fire, as they may explode. Follow all local ordinances regarding proper disposal of batteries.

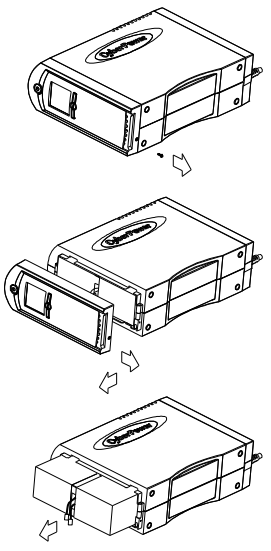
CAUTION! Do not open or mutilate the batteries. Released electrolyte is harmful to the skin and eyes and may be toxic.

CAUTION! A battery can present a high risk of short circuit current and electrical shock. Take the following precautions before replacing the battery:

1. Remove all watches, rings or other metal objects.
2. Only use tools with insulated handles.
3. **DO NOT** lay tools or other metal parts on top of battery or any battery terminals.
4. Wear rubber gloves and boots.
5. Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source of ground.

CONTACT WITH A GROUNDED BATTERY CAN RESULT IN ELECTRICAL SHOCK! The likelihood of such shock will be reduced if such grounds are removed during installation and maintenance (applicable to a UPS and a remote battery supply not having a grounded circuit)

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 upside down.
4. Remove the retaining screw.
5. Slide the battery compartment cover (front panel) completely off of the unit.
6. Remove the batteries from the compartment.
7. Disconnect the battery wires from the batteries.
8. Install the replacement batteries by connecting the red wire and black wire to the same color wires from the battery pack.
9. Put the batteries back into the compartment.
10. Slide back the battery compartment cover and tighten the retaining screw.
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.

DEFINITIONS FOR ILLUMINATED LCD INDICATORS



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 supply connected equipment with stable, 220/230 output voltage. In the event of a complete power loss, severe brownout, or over-voltage, the UPS relies on its internal battery to supply consistent 220/230 output voltage. The INPUT voltage meter can be used as a diagnostic tool to identify poor-quality input power.

OUTPUT voltage meter: This meter measures 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.

ESTIMATE RUN TIME: This displays the run time estimate of the UPS with the current battery capacity and load.

NORMAL icon: This icon appears when the UPS is working under normal GreenPower Bypass conditions.

BATTERY icon: During a severe brownout 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 brownout or blackout, the alarm will sound continuously (and the BATT.CAPACITY meter shows one 20% capacity segment shaded) to indicate the UPS's batteries are nearly out of power. You should save files and turn off your equipment immediately.

AVR (Automatic Voltage Regulator) 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.

SILENT MODE icon: This icon appears whenever the UPS is in silent mode. The buzzer does not beep during silent mode until the battery reaches low capacity.

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

FAULT icon: This icon appears if there is a problem with the UPS. Contact CyberPower Systems at service@cyberpower-eu.com for further help and support.

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

LOAD CAPACITY meter: This meter displays the approximate output load level (in 20% increments) of the UPS's battery outlets.

TECHNICAL SPECIFICATIONS

Model	**CP1350EAVRLCD-UK**	**CP1500EAVRLCD-UK**
Capacity (VA)	1350VA/810W	1500VA/900W
Input		
Frequency Range	50/60Hz +/- 3Hz (Auto Sensing)	
AVR Function	Yes	
Output		
On Battery Output Voltage	230Vac +/-10%	
On Battery Output Frequency	50/60Hz +/-1%	
Overload Protection	On Utility: Circuit Breaker, On Battery: Internal Current Limiting	
Surge Protection		
Lightning / Surge Protection	Yes	
Network/ Phone/ Fax/ Modem Protection	RJ11/RJ45 (One In/ One Out)	
Operating Temperature	0°C to 40°C	
Physical		
Total # of UPS outlets	6 (Backup x 3)	
Maximum Dimensions(LxWxH)	371 x 100 x 249 mm	
Weight (kg)	11.5kg	12.1kg
Battery		
Sealed Maintenance Free Lead Acid Battery	RBP0064	RBP0015
Typical Recharge Time	8 hours	
Charging Current(Max.)	0.7A	
User Replaceable	Yes	
Status Indicators		
Indicators	Power On, LCD Display	
Audible Alarms	On Battery, Low Battery, Overload	
Communication		
PowerPanel® Personal Edition Software	Windows 8 / 7 / Vista / XP, Server 2012 / 2008, Linux	
Management		
Auto-Charger	Yes	
Auto-Restart	Yes	
USB interface	Yes	
Certifications		
Certifications	CE	

CYBERPOWER GREENPOWER UPS TECHNOLOGY

CyberPower's Green Commitment

CyberPower is dedicated to the development of green products, and has adopted Green practices throughout its business, including: membership in Climate Savers Computing Initiative (CSCI), accordance with the Restriction on Hazardous Substances (RoHS), Waste Electrical and Electronic Equipment (WEEE) protocols, as well as ISO 14001 and IECQ QC080000. CyberPower pledges to provide the advanced energy solution for the environment and become a leading eco-friendly organization in the UPS industry.

ENERGY-SAVING TECHNOLOGY

Reduce Energy Cost with GreenPower UPS™ Technology

CyberPower's goal is not only to provide eco-friendly products but also to bring the best value for consumers. The advanced energy-saving design improves the operating efficiency and eliminates waste energy consumption**.** As a result, consumers will enjoy significant energy cost savings with the adoption of **GreenPower UPS™** technology.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Full-time surge protection outlets stop providing power to equipment. Circuit breaker button is projecting from the side of the unit.	Circuit breaker has tripped due to an overload.	Turn the UPS off and unplug at least one piece of equipment. Wait 10 seconds, reset the circuit breaker by depressing 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 slightly worn out.	Contact CyberPower Systems about replacement batteries at service@cpsww.co.uk
The UPS will not turn on.	The on/off switch is designed to prevent damage by rapidly turning it off and on.	Turn the UPS off. Wait 10 seconds and then turn the UPS on.
	The battery is worn out.	Contact CyberPower Systems about replacement batteries at service@cpsww.co.uk
	Mechanical problem.	Contact CyberPower Systems at service@cpsww.co.uk
PowerPanel® Personal Edition is inactive.	The USB cable is not connected.	Connect the USB cable to the UPS unit and an open serial port on the back of the computer. You must use the cable that came with the unit.
	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 www.cpsww.co.uk

For more information, visit www.cpsww.co.uk or contact
CyberPower Systems, Inc
sales@cpsww.co.uk

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