

User’s Manual

BR700ELCD / BR1000ELCD / BR1200ELCD

IMPORTANT SAFETY INSTRUCTIONS

(SAVE THESE INSTRUCTIONS)

This manual contains important safety instructions. Please read and follow all instructions carefully during the 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. (See the specifications for the acceptable temperature and humidity range.)

CAUTION! To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat-emitting appliances such as space heaters or furnaces.

CAUTION! Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.

CAUTION! Do not plug the UPS input into its own output.

CAUTION! Do not allow liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.

CAUTION! In the event of an emergency, press the OFF button and disconnect the power cord from the AC power supply to properly disable the UPS.

CAUTION! Do not attach a power strip or surge suppressor to the UPS.

CAUTION! Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.

CAUTION! When replacing the batteries, use the same number and type of batteries.

CAUTION! Do not dispose of batteries in a fire. The battery may explode. Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes.

CAUTION! Unplug the UPS prior to cleaning and do not use liquid or spray detergent.

CAUTION! The length of the output cable should not exceed 3 meters.

INSTALLING YOUR UPS SYSTEM

UNPACKING

The box should contain the following : (1) UPS Unit x 1; (2) User Manual x 1; (3) USB Cable x 1; (4) Phone Cable x 1; (5) Cable Collector x 1

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

OVERVIEW

The BR700ELCD/BR1000ELCD/BR1200ELCD provides automatic voltage regulation for inconsistent utility power and battery backup during power outages. The BR700ELCD/BR1000ELCD/BR1200ELCD ensures consistent power to your computer system.

HOW TO DETERMINE THE POWER REQUIREMENTS OF YOUR EQUIPMENT

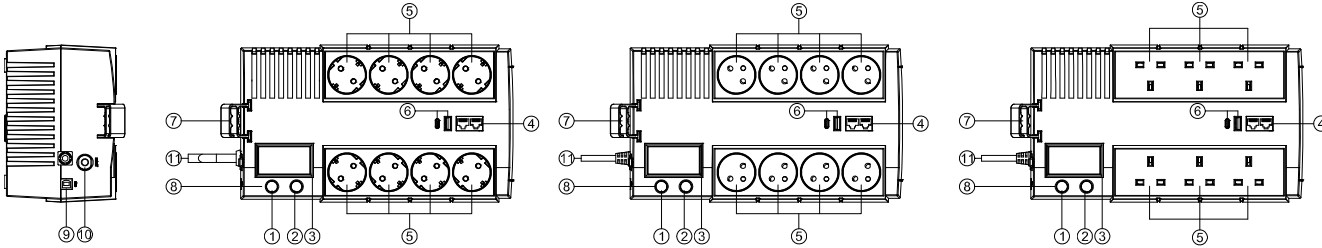
1. Ensure that the equipment plugged into the battery power-supplied outlets does not exceed the UPS unit's rated capacity. If rated unit capacities are exceeded, an overload condition may occur and cause the UPS unit to shut down or the circuit breaker to trip.
2. There are many factors that can affect the amount of power that your computer system will require. For optimal system performance keep the attached load below 80% of the UPS's rated capacity.

HARDWARE INSTALLATION GUIDE

1. Your new UPS may be used immediately upon receipt. However, recharging the battery for at least 8 hours is recommended to ensure that the battery's maximum charge capacity is achieved. Charge loss may occur during shipping and storage. To recharge the battery, simply leave the unit plugged into an AC outlet. The unit will charge in both the on and off position.
2. With the UPS unit off and unplugged, connect the computer, monitor, and any externally powered data storage device (Wireless router, broadband modem, etc.) into the battery power supplied outlets. **DO NOT plug a laser printer, copier, space heater, vacuum, paper shredder, or other large electrical device into the battery power-supplied outlets. The power demands of these devices will overload and possibly damage the unit.**
3. 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.
4. Press the power switch to turn the unit on. The power on indicator light will illuminate and the unit will "beep".
5. 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 / fuse is normal and then turn the UPS on.
6. To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.

7. To store your UPS for an extended period, cover it and store it with the battery fully charged. 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. To turn the UPS ON, press the power button for approximately 2 seconds – you will hear a constant tone (1 second) – and release after a short beep.

To turn the UPS OFF, press the power button for approximately 2 seconds – you will hear a constant tone (1 second) – and release after two short beeps.

Alarm setting: The audible alarm can be turned OFF or ON by quickly pressing the POWER button twice. The default setting is for the Alarm On. To turn the Alarm Off, quickly press the power button twice. You will hear two short beeps when the Alarm is turned off. To turn the Alarm back on, quickly press the power button twice. You will hear a single short beep when the Alarm is turned on.

*When the Alarm is turned Off, there will be no audible notification when the UPS reaches a low battery state.

2. Mode Switch

Press the Mode Switch for approximately 3 seconds to enter setup mode to select three functions: Utility High Voltage Range, Utility Low Voltage Range, and LCD sleep ON/OFF.

When an option is selected, wait for 8 seconds for the setting to be confirmed. After the setting has been confirmed, the LCD screen will leave setup mode and go back to the status display. If there is no action for 8 seconds during setup, the LCD will also leave setup mode and go back to the status display.

- a. Utility High Voltage Range: Adjust the value of high voltage range
- b. Utility Low Voltage Range: Adjust the value of low voltage range
- c. LCD: L1/L0 (ON/OFF):

*When LCD is set to L1, LCD will be always ON. When LCD is set to L0, LCD will dim if untouched for 1 minute.

*In battery mode, LCD is always on regardless if the setting is L1 or L0.

3. LCD Display

The LCD will display the UPS status including input voltage, output voltage, runtime, percentage of load and battery, etc. For more information, please review the “Definitions for Illuminated LCD Indicators” section.

4. Communication Protection Ports RJ11/RJ45

Communication protection ports will protect any standard modem, fax, telephone line, or network cable from surges and spikes.

5. AC Outlets

The UPS provides 4 outlets for connected equipment to ensure temporary uninterrupted operation during a power failure and against surges and spikes and another 4 outlets against surges and spikes only.

6. USB Charge Ports

The UPS provides charging for external equipment via this port.

7. Cable Collector

Collect the cables connected from the AC outlets in the cable collector.

8. Led Indicators

The power on LED lights up when the UPS is ON.

9. USB Port

This port allows connection and communication from the USB port on the computer to the UPS. The UPS communicates its status to the PowerPanel® Personal software.

10. Input Circuit Breaker

The circuit breaker provides overload protection.

11. Input power cord

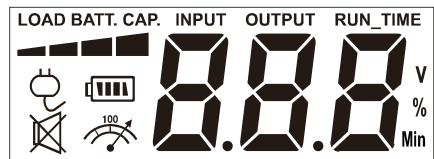
Connect to utility power.

POWER	ALARM	CONDITION
On	Off	Normal
On	Beep twice every 30 seconds	Utility Failure - The UPS is providing power to battery power-supplied outlets from its battery.
On	Rapid beeping every 1/2 second	Utility Failure - The UPS is providing battery power. Rapid beeping indicates the unit will run out of power soon.
On/Off	Constant tone	Battery Mode or AC/Utility Power Mode Overload Fault – Occurs when connected equipment exceeds the rating of battery outlets of the unit. Please unplug at least on piece of equipment from battery outlets.
Off	Constant tone	Battery Output Short Fault – Please unplug at least one piece of equipment from battery outlets and turn on the UPS again. If the fault still exists, please contact CyberPower Systems for support.
On	Constant tone	Charger Fault – Contact CyberPower Systems for support.

DEFINITIONS FOR ILLUMINATED LCD INDICATORS

LCD Indication

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.



- INPUT voltage meter:** This meter measures the AC voltage that the UPS system is receiving from the utility wall outlet. The UPS is designed to continuously supply connected equipment with stable 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 110/120 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, in real-time, the AC voltage that the UPS system is providing to the computer during normal AC/Utility Power mode, and battery backup mode.
- ESTIMATED RUNTIME:** 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 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 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.
- SILENT MODE icon:** This icon appears whenever the UPS is in silent mode.
- 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.
- BATT. CAPACITY meter:** This meter displays the approximate charge level of the UPS's internal battery in 25% increments. During a blackout or severe brownout, the UPS switches to battery power (the BATTERY icon appears) and the battery charge level decreases.
- LOAD CAPACITY meter:** This meter displays the approximate output load level of the UPS battery outlets in 25% increments.
- FAULT:** The following number appears if there is a problem with the UPS. Press the POWER button to turn the UPS off.

TECHNICAL SPECIFICATIONS

Model	BR700ELCD		BR1000ELCD		BR1200ELCD	
Capacity (VA/W)	700/420		1000/600		1200/720	
Input						
Voltage Range	167~295Vac					
Nominal Frequency	50/60Hz (Auto Sensing)					
Output						
On Battery Output Voltage	Simulated Sine Wave at 230Vca +/-10%					
On Battery Output Frequency	50/60Hz +/-1%					
Overload Protection	Breaker / Internal Current Limiting					
Physical						
Total UPS Receptacles	8					
Outlets-Battery & Surge Protected	4					
Outlets-Surge Only Protected	4					
Dimensions (W x H x D) (mm)	166 x 118 x 288					
Weight (kg)	5.5		6.5		8	
Battery						

Sealed Maintenance Free Lead Acid Battery	12V / 7.2Ah	12V / 9Ah	12V / 5.6Ah *2
Typical Recharge Time	8 Hours		
Warning Diagnostics			
Indicators	Power On, LCD Display		
Audible Alarms	On Battery, Low Battery, Overload		
Environmental			
Operating Temperature	0°C to 40°C		
Operating Relative Humidity	0 to 90%		
Communication			
PowerPanel Personal Software	Yes		
Management			
Auto-Charger	Yes		
Auto-Restart	Yes		
USB	Yes		

TROUBLESHOOTING

Problem	Possible Cause	Solution
The UPS does not perform the expected runtime.	Batteries are not fully charged.	Recharge the battery by leaving the UPS plugged in.
	The battery is slightly worn out.	Contact CyberPower Systems Technical Support.
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 unit is not connected to an AC outlet.	The unit must be connected to a 120Vac outlet.
	The battery is worn out.	Contact CyberPower Systems Technical Support.
	Mechanical problem.	Contact CyberPower Systems Technical Support.
Outlets do not provide power to equipment	The fuse is blown or the breaker is tripped due to overload.	Turn the UPS off and unplug at least one piece of connected equipment. Unplug the power cord of the UPS then contact CyberPower Systems technical support. or press the circuit breaker knob. Connect the power cord then turn the UPS on.
	Batteries are discharged	Allow the unit to recharge for at least 4 hours.
	The unit has been damaged by a surge or spike.	Contact CyberPower Systems Technical Support.
PowerPanel® Personal is inactive	The serial/USB cable is not connected.	Connect the serial/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.	Shut down your computer and turn the UPS off. Wait 10 seconds and turn the UPS back on. This should reset the unit.

PRODUCT REGISTRATION

Prompt product registration assures 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.

Go to the Product Registration page at www.cyberpower.com/product_registration

For technical support, contact CyberPower at www.cyberpower.com/contact

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