# CyberPower®

## UT650/850/1050EI User's Manual

## IMPORTANT SAFETY 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. (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 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!** Unplug the UPS prior to cleaning and do not use liquid or spray detergent.

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

## INSTALLING YOUR UPS SYSTEM

### *UNPACKING*
The box should contain the following: (1) UPS Unit x1; (2) User Manual x1; (3) Output Cable x 1

### *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 (Zip drive, Jazz drive, Tape drive, 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 turns 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 with the battery fully charged. Recharge the battery every three months to ensure battery life.

## BASIC OPERATION

1. **Power Switch**
   Press the switch for 2 seconds to turn the UPS ON or OFF.
   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.
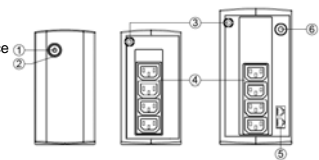2. **Led Indicators**   This LED is illuminated when the UPS is working.
3. **Input Power Cord**   Connect to utility power.
4. **AC outlet**
   The UPS provides outlets for connected equipment to insure temporary uninterrupted operation during a power failure and against surges and spikes.
5. **Communication Protection Ports**        Communication protection ports will protect any standard modem, fax, telephone line, or network cable.
6. **Input Circuit Breaker**   The circuit breaker provides overload protection.

## DEFINITIONS FOR ILLUMINATED LED INDICATORS

| LED | Alarm | Condition |
|---|---|---|
| On | Off | Normal |
| Flash | Beep Twice | Utility Failure - The UPS is providing battery power to outlets. |
| Flash | Rapid Beeping | Utility Failure - The UPS is providing battery power.   The rapid beeps indicate the battery will run out of power shortly. |
| On/Flash | Constant Tone | Overload - Occurs when connected equipment exceeds the rating of the unit. Turn the UPS off and unplug at least one piece of equipment from the UPS. |

## TECHNICAL SPECIFICATIONS

| Model | UT650EI | UT850EI | UT1050EI |
|---|---|---|---|
| Capacity (VA/W) | 650/360 | 850/425 | 1050/630 |
| **Input** | | | |
| Voltage Range | 165~290Vac | | |
| Nominal Frequency | 50/60 Hz | | |
| **Output** | | | |
| On Battery Output Voltage | Simulated Sine Wave at 230Vac +/-10% | | |
| On Battery Output Frequency | 50/60 Hz +/-1% | | |
| Overload Protection | Breaker / Fuse | | |
| **Physical** | | | |
| Total # of UPS Receptacles | 4 | | 4 |
| Dimensions (H x W x D)(mm) | 84x159x252 | | 100 x 189 x 325 |
| Weight | 3.8 kg | 4.2 kg | 6.9 kg |
| **Battery** | | | |
| Sealed Maintenance Free Lead Acid Battery | RBP0118 x1 | RBP0062 x1 | RBP0119 x2 |
| Typical Recharge Time | 8 Hours | | |
| **Warning Diagnostics** | | | |
| Indicators | Power On / Using Battery | | |
| Audible Alarms | On Battery, Low Battery, Overload, Fault | | |
| **Environmental** | | | |
| Operating Temperature | 0℃ to 40℃ | | |
| Operating Relative Humidity | 0 to 90% | | |
| **Management** | | | |
| Auto-Charger | Yes | | |
| Auto-Restart | Yes | | |

## TROUBLE SHOOTING

| Problem | Possible Cause | Solution |
|---|---|---|
| The UPS does not perform expected runtime. | Batteries are not fully charged. | Recharge the battery by leaving the UPS plugged in. |
| | Battery is slightly worn out. | Contact CyberPower Systems Technical Support. |
| The UPS will not turn on. | The unit is not connected to an AC outlet. | The unit must be connected to a 220-240V 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 | Fuse is blown or breaker is tripped due to overload. | Turn the UPS off and unplug at least one piece connected equipment. Unplug the power cord of the UPS then replace the blown fuse with a spare one or press the circuit breaker knob. Connect power cord then turn the UPS on. Make sure that your spare fuse meets the specification. |
| | Batteries are discharged. | Allow the unit to recharge for at least 4 hours. |
| | Unit has been damaged by a surge or spike. | Contact CyberPower Systems Technical Support. |