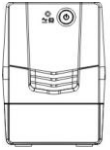


## INSTALLATION

### 1 Inspection

The following items are inside the box:



UPS unit

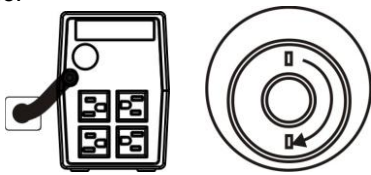


User Manual

Remove the UPS from its package and inspect it for damage that may have occurred during shipping. If any damage is discovered, re-pack the unit and return it to the place of purchase.

### 2 Connect to Utility Power

Connect AC power cord to utility power. Then, the UPS will start to charge inside battery. For best result, charge the battery for 6 hours prior to initial use.



## OPERATION & FUNCTIONS

### Operation

#### 1 Turn On the UPS

To turn on the UPS unit, press the power switch lightly. Then, the LED will light up.

#### 2 Turn Off the UPS

To turn off the UPS unit, press the power switch again. Then, the LED will go off.

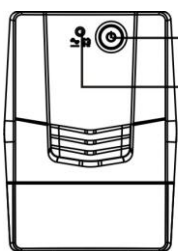
#### 3 Cold Start Function

When the UPS is off and there is no power utility, it's still possible to cold start the UPS unit to power the loads.

#### 4 Free Software Download (Option)

Go to the website <http://www.power-software-download.com> and download the ViewPower software. Follow on-screen instruction to install the software. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.

### Front Panel



Power switch

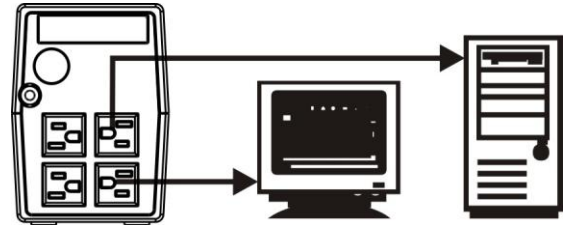
Status LED

Indicator	Meaning
Green LED solid on	Utility power is normal. The UPS is on AC mode.
Green LED flashing	Utility power fails and the UPS is supplying power from battery.

### 3 Plug in Equipment

Plug your equipment to Battery Backup Outlets on the rear panel of the UPS.

**NOTE:** Make sure that the UPS is powered on to protect all important devices from data loss during power failure.

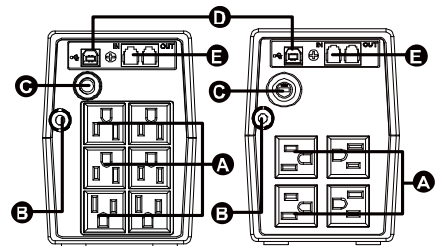


Monitor

Computer

**CAUTION: NEVER** connect a laser printer or scanner to the battery backup outlets of UPS. The equipment may draw significantly power to overload the UPS.

## REAR PANEL



#### A Battery backup outlets:

Plug sensitive equipment into battery backup outlets. Battery power is automatically provided in case of a power outage.

#### B AC input

#### C Fuse (option):

The fuse will be burned out if an overload condition forces the UPS to disconnect itself from utility power.

#### D USB com. port (option):

To monitor the UPS status, such as unattended UPS shutdown and start-up, by using download software, please connect the UPS and PC with USB cable included.

#### E Modem/Phone line surge protection (option):

Connect a single modem or phone line into surge-protected "IN" outlet on the back panel of the UPS unit. Connect from "OUT" outlet to the computer with another phone line cable.

## ALARMS

#### Battery mode:

When the UPS is in battery backup mode (battery mode), the green LED will flash and the UPS sounds an audible alarm every 10 seconds.

#### Low battery:

When the UPS is in battery backup mode (battery mode) and the battery energy begins to run low, the UPS will beep every second.

#### Overload:

When the UPS is overloaded, the UPS will beep every 0.5 second to warn an overload condition.

#### Fault:

When there a UPS fault occurs, the UPS will continuously beep.

## SAFETY CAUTION

**SAVE THESE INSTRUCTION-This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.**

- This UPS utilizes voltage that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only factory service personnel may perform repairs.
- This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.
- During the installation of this equipment it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violate local electrical codes.
- 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.
- Do not allow any liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
- Do not plug the UPS input into its own output.
- Do not attach a power strip or surge suppressor to the UPS.
- Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
- Do not dispose of batteries in a fire as they may explode.
- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:
  - 1) Remove watches, rings, or other metal objects from the hands.
  - 2) Use tools with insulated handles.
  - 3) Wear rubber gloves and boots.
  - 4) Do not lay tools or metal parts on top of batteries.
  - 5) Disconnect charging source prior to connecting or dis-connecting batteries terminal.
- Internal battery voltage is 12VDC. Sealed, lead-acid, 6-cell battery.
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- When replacing batteries, replace with the same number and type of sealed lead-acid battery.
- Do not open or mutilate the battery or batteries. Release electrolyte is harmful to the skin and eyes. It may be toxic.
- Attention, hazardous through electric shock. Also with dis-connection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole at the connectors of the battery when maintenance or service work inside the UPS is necessary.
- 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 heater or furnaces.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.

## PLACEMENT & STORAGE

### Placement

Install the UPS in a protected area that is free of excessive dust and has adequate air flow. Place the UPS away from other units at least 20 cm to avoid interference. For best performance, keep the indoor temperature between 0° C and 40° C.

### Storage

All connected equipment should be turned off, then disconnect from the UPS to avoid battery drain. Unplug the UPS from the wall outlet. Then turn off the UPS for storage. Store the UPS unit covered and upright in environments where the ambient temperature is -20 C to 50 C with its battery fully charged.

## SPECIFICATIONS

MODEL	400	600	800
<b>CAPACITY</b>	400VA/240W	600VA/360W	800VA/480W
<b>Input Voltage</b>	110/120 VAC		
<b>Input Voltage Range</b>	85-145 VAC		
<b>Output Voltage Regulation</b>	± 10 % (Bat. mode)		
<b>Transfer Time</b>	Typical 2-6 ms		
<b>Waveform</b>	Simulated Sine Wave		
<b>Battery Type</b>	12V/4.5Ah	12V/7Ah	12V/9Ah
<b>Battery Number</b>	1	1	1
<b>Charging Time</b>	6 hours recover to 90% capacity		
<b>Dimension (DxWxH)</b>	279 x 101 x 142		
<b>Net Weight (kgs)</b>	3.55	4.25	4.9
<b>Humidity</b>	0-90% RH @ 0-40°C (non-condensing)		
<b>Noise Level</b>	Less than 40dB		

\*Specifications are subject to change without notice.

## TROUBLESHOOTING

Problem	Possible Cause	Solutions
LED not lit.	The UPS is not on.	Press the power switch again to turn on the UPS.
	Battery voltage is too low.	Charge the battery at least 6 hours.
	Battery fault.	Replace the battery.
The UPS always on battery mode.	Power cord loose.	Re-plug the power cord.
The UPS continuously beeps.	Overload.	Remove some unnecessary loads. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specs.
	Backup time too short.	Battery voltage is too low.
	Overload.	Remove some unnecessary loads. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specs.
	Battery defect.	Replace the battery.

If any abnormal situations occur that are not listed above, please call for service immediately.