

## Important Safety Warnings

This manual contains instructions and warnings that should be followed during the installation, operating and storage of the UPS system. Please keep this manual for further reference.

**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 radiators.

**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 completely disable the UPS.

**CAUTION!** The UPS installation must be correctly ground in order to reduce leakage current below 3.5mA.

**Attention** The UPS output is supplied by two sources. When the UPS is disconnected from mains power, hazardous voltage may still be present from the internal battery. The battery should be disconnected when maintenance or service work inside the UPS is necessary.

**CAUTION!** Servicing of batteries should be performed or supervised by qualified personnel only.

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

**CAUTION!** Dispose of batteries in the correct manner and in line with local laws and regulations. Never dispose of batteries in a fire. Do not attempt open the battery. 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!** A battery can present a risk of electric shock and short circuit.

**CAUTION!** This is a category C2 UPS product. In a residential environment, this product may cause radio interference, in which case the user may be required to take additional measures.

Designed and Engineered by:

**CertaUPS**

[www.certaups.com](http://www.certaups.com)

# CertaUPS



## C60 Uninterruptible Power Supply User Manual

### Specifications

MODEL	C60-800	C60-1000	C60-1500	C60-2000
<b>CAPACITY</b>	800VA/480W	1000VA/600W	1500VA/900W	2000VA/1200W
<b>INPUT</b>				
Input Voltage	220/230/240VAC			
Voltage Range	162-290VAC			
<b>OUTPUT</b>				
Voltage Regulation	+/-10%			
Transfer Time	Typical 2-6ms, 10ms max.			
Waveform	Simulated Sinewave			
<b>BATTERY</b>				
Type & Number	12V/9Ah x 1	12V/7Ah x 2	12V/9Ah x 2	12V/9Ah x 2
Charging Time	4-6 hours recover to 90% capacity			
<b>PHYSICAL</b>				
Dimension (WxDxH) mm	100 x 287 x 142	146 x 350 x 160	146 x 397 x 205	
Net Weight (KG)	4.9	8.0	11.1	11.5

## Installation & Operation

### 1 Initial Set-up

After unpacking the unit, please avoid placing the unit in direct sun light, excessive heat, excessive humidity or in contact with fluids of any type. Please allow 20cm space around the unit.



### 2 Connect Mains Power

Plug the UPS into an electrical outlet that does not share a circuit with any other heavy electrical load. Please allow the UPS to charge at least 6 hours prior to use.

### 3 Connect Equipment

Connect critical equipment to the battery backup outlets, these are supported automatically when a mains failure occurs. Connect other equipment that needs only surge suppression to the surge protected outlets. Power is not supplied to these outlets when the unit is switched off. Therefore, please be sure to switch on the unit.

**NOTE: Please DO NOT connect scanners or printers to the battery backup outlets.**

### 4 Connect Modem/Phone/Network for Surge Protection

Connect a single modem/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.

### Connect Communication Port

To allow for unattended UPS shutdown/start-up and status monitoring, connect the communication cable one end to the USB port and the other to the communication port of your PC. With the monitoring software installed, you can schedule UPS shutdown/start-up and monitor UPS status through PC.

### Software Installation

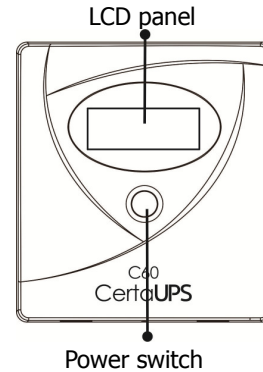
1) Please download the monitoring and shutdown software from the website [www.certaups.com/downloads](http://www.certaups.com/downloads) to download ViewPower software.

2) When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.

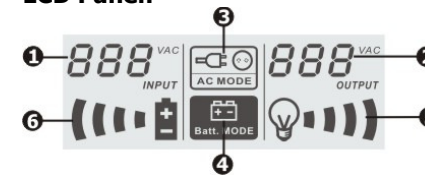
### Power On/Off UPS

Press power switch on the front panel of the UPS to turn on the UPS. Press switch again to turn off the UPS.

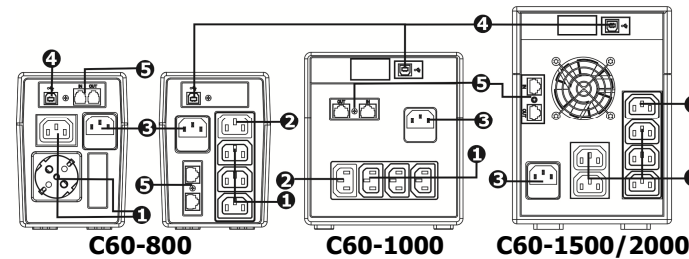
## Front Panel & Back Panel



### LCD Panel:



- 1 Input voltage
- 2 Output voltage
- 3 AC mode indicator
- 4 Battery mode indicator
- 5 Load level indicator, flashing indicates overload
- 6 Battery capacity indicator, flashing indicates low battery



- 1 Battery backup outlets
- 2 Surge protected outlets
- 3 AC input
- 4 USB communication port
- 5 Modem/Phone Line /Network surge protection

## Troubleshooting

Problem	Possible Cause	Solutions
Nothing displays on the front panel.	Low battery	Charge the UPS at least 6 hours.
	Battery fault	Replace the battery with the same type of battery.
	The UPS is not turned on	Press the power switch again to turn on the UPS.
Alarm continuously sounds when the mains is normal.	The UPS is overloaded	Remove some load first. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specs.
When power fails, the back-up time is very short.	The UPS is overloaded	Remove some critical load.
	Battery voltage is too low	Charge the UPS at least 6 hours.
	Battery defect. It might be due to high temperature operation environment, or improper operation to battery	Replace the battery with the same type of battery.
The mains is normal but UPS is on battery mode.	Power cord is loose	Reconnect the power cord properly.