

# Line Interactive UPS

user manual

## 1 Package Contents

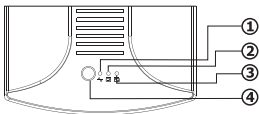
You should have received following items inside of package:  
-UPS unit  
-User manual  
-Communication cable ,CD(only for the model with USB/RS232 port)

## 2 Product Introduction

This UPS provides comprehensive protection in a small and economic package. the UPS is more compact and offers greater comprehensive power protection against surges and spikes. this UPS will continue providing stable power to connected equipment and enable to shutdown PC safely during power failure. Its embedded microprocessor controller guarantees high reliability and it's perfect for any home or small office application.

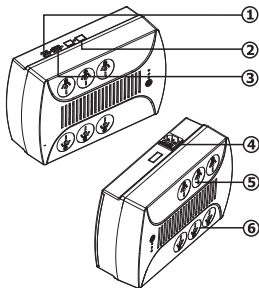
## 3 Product Overview

Front view:



1. Green light--AC output indications, illume when the Mains power on.
2. Yellow light--AC input indications, illume when there is Mains input.
3. Red light--DC output indications, illume under inverter mode.
4. On/Off button

Side view:



1. USB (optional)
2. RJ11(optional)
3. RS232 (optional)
4. AC input
5. UPS surge protection
6. Surge protection

## 4 Installation & Initial Startup

**NOTE:** Before installation, please inspect the unit. Be sure that nothing inside the package is damaged.

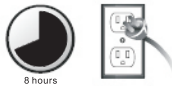
### Placement & Storage Conditions

Install the UPS in a protected area that is free of excessive dust and has adequate air flow. Please place the UPS away from other units at least 20 cm to avoid interference. do not operate the UPS where the temperature and humidity is outside the specific limits. (Please check the specs for the limitations)



### Connect to utility and charging

Plug in the AC input cord to the wall outlet. For the best results, suggest to charge the battery at least 8hours before initial use. The unit charges its battery while connecting to the utility.



### Connect to the load

Plug in the loads to output receptacles on the rear panel of the UPS. Simply turn on the power switch of UPS unit, then devices connected to the UPS will be protected by UPS unit.

**CAUTION:** Only bypass output can connect a laserprinter or scanner. otherwise it may cause the damage of the unit.

### Connect TEL/Modem/Fax for surge protection (Only for the model with RJ-11)

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 Cable (Only for the model with USB/RS232 port)

To allow for unattended UPS shut down/start-up and status monitoring, connect the communication cable one end to the UPS/RS232 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.

### Turn on/off the unit

Turn on the ups unit by pressing the power switch. Turn off the UPS unit by pressing again the power switch.

### Battery maintenance

The UPS contains sealed lead-acid maintenance-free battery. The bad environment, high discharging frequency, high temperature etc will dramatically reduce the service life of battery. The service life of battery will also reduce even it is not used. It is suggested to discharge the battery once every 3 months when AC is normal. When battery is near the end of its life, the battery will end in bad performance.

## 8 Trouble Shooting

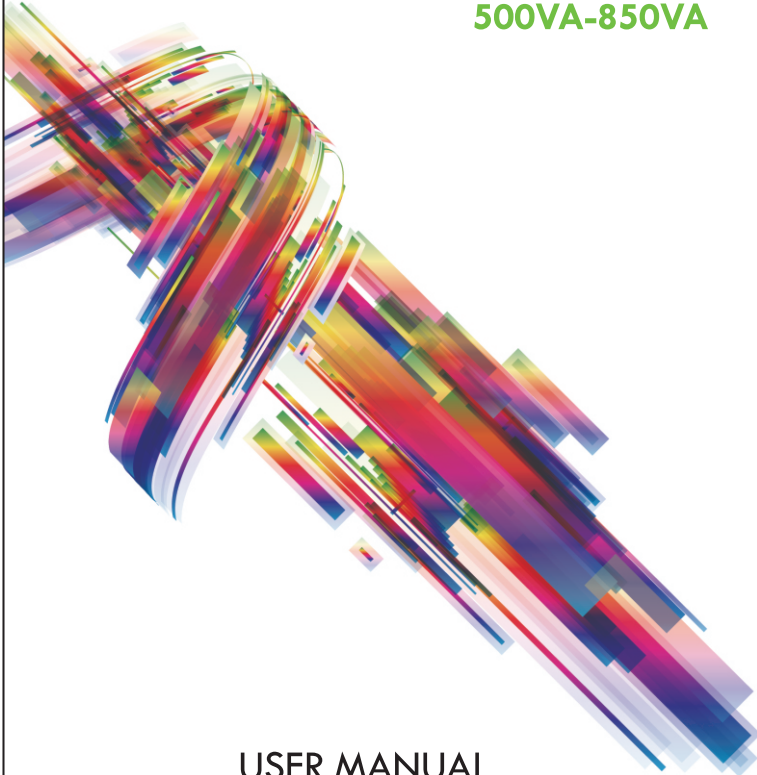
Use the table below to solve minor problems.

Phenomenon	Probably cause	Solution
The mains is normal, but the UPS is in battery mode.	AC input fuse is broken	the fuse is placed with AC input of the UPS. After disconnecting the AC plug, put out the fuse and replace it with a new one.
When AC fails, the computer doesn't work.	Battery low voltage.	Please turn on the UPS and charge the battery for at least 10 hours, when AC is normal and then turn on the UPS.
When power fails, backup time is shorten.	The UPS is overload	Remove some critical load.
	Battery voltage is too low	Charge UPS at least 8 hours.
	Battery defect. It might due to high temperature operation environment or improper operation to battery.	Replace the battery with the same type.

## 9 Specifications

Model	500VA	600VA/650VA	700VA/750VA	800VA/850VA
INPUT				
Voltage	100V/110V/120V/ or 220V/230V/240V			
Voltage Range	±25%(-35% optional)			
Frequency Range	50/60Hz±10%			
OUTPUT				
Power factor	0.6			
Voltage Regulation	±10%			
Transfer Time	≤10ms			
Waveform	Simulated sine wave			
BATTERY				
Type&Number	12V/7AH*1			12V/8AH*1
Charging Time	8 hours recover to 90% capacity			
PHYSICAL				
Dimension (W*D*H)	185*280*95(mm)			
Net Weight (kgs)	4.5Kg		4.8Kg	5.6Kg
ENVIRONMENT				
Humidity	20%~90% RH @ 0~40℃(non-condensing)			
Noise Level	≤45dB(1m)			
MANAGEMENT				
USB/RS-232(Optional)	Supports Windows 98/2000/2003/XP/Vista/2008/Windows 7/Windows 8			

UPS  
500VA-850VA



USER MANUAL

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## 5 Important Safety Warning (Save these instructions)

**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.