



OFFLINE UPS USER GUIDE

850-3000



SAFETY – WARNING

- ★ This UPS utilizes voltages that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user serviceable parts. Only factory service personnel may perform repairs.
- ★ Internal battery voltage is 12Vdc. Sealed, lead-acid, 6 cells battery.
- ★ 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 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.
- ★ 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.
- ★ Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- ★ Do not dispose of batteries in a fire as they may explode.
- ★ Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- ★ 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 disconnecting batteries terminals.
- ★ 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. The maximum ambient temperature rating is 40°C
- ★ This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- ★ 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.
- ★ Attention, hazardous through electric shock. Also with disconnection 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 of the battery when maintenance or service work inside the UPS is necessary.
- ★ The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.



INTRODUCTION

This UPS is specially designed for Personal Computer with multi-functions. Its light weight, compact design perfect fits to the limited working environment. The line of UPS is equipped with boost and buck AVR to stabilize input voltage range. It is also built-in with DC start function. This function enables the UPS to be started up without AC power supplied. Although it's a small UPS, The main features of UPS are listed below:

- Microprocessor control guarantees high reliability.
- Equipped with Boost and Buck AVR.
- Green Power Function for energy saving.
- DC Start Function.
- Auto restart while AC recovery.
- Compact size, Light Weight.
- Provides AC Overload protection.
- UPS software management (optional).

TROUBLE SHOOTING

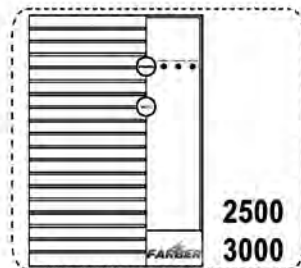
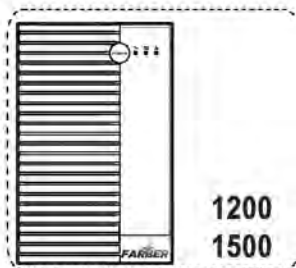
Symptom	Possible Cause	Remedy
No LED display on the front panel.	1. Battery weak.	1. Charge battery up to 8 hours.
	2. Battery defect.	2. Replace with the same type of battery.
	3. Power switch is not pressed.	3. Press the power switch again.

Alarm buzzer beeps continuously when AC supply is normal.	Overload of the UPS.	Verify that the load matches the UPS capability specified in the specs.
When power failure, back-up time is shorten.	1. Overload of the UPS.	1. Remove some non-critical load.
	2. Battery voltage is too low.	2. Charge battery 8 hours or more.
	3. Battery defect due to high temperature operation environment, or improper operation to battery.	3. Replace with the same type of battery.
Mains normal but Yellow LED is flashing.	Power cord is loose.	Reconnect the power cord properly.

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

Description of buzzer and LED:

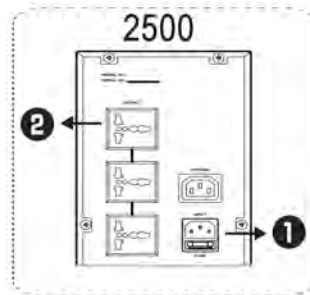
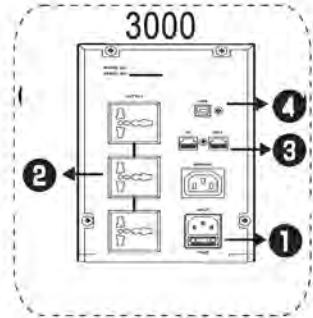
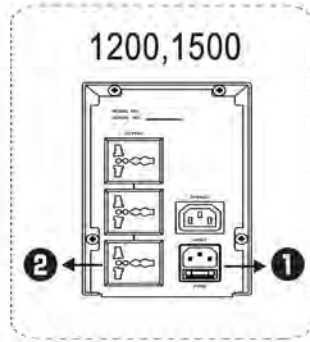
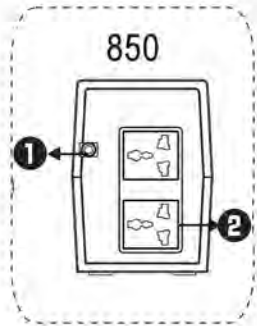
LED	Buzzer	Output	Charge	Description	Status
None	None	None	No	No mains input and the UPS is off.	Shutdown
Green LED on	None	Yes	Yes	Mains input normal and UPS operates in line mode.	Normal
Green LED flashes	None	No	Yes	Mains input normal, and UPS is power off and charging.	Charge
Yellow LED flashes	Beep once every 10 sec	Yes	No	Mains input abnormal and UPS is powered by battery.	Mains input abnormal
Yellow LED flashes	Beep once every 1 sec	Yes	No	Mains input abnormal and UPS is powered by battery. The battery voltage is low and the UPS is going to shutdown.	
Red LED on	Beep continuously	No	No	UPS has fault such as overload, short-circuited or other faults.	Fault



Back Panel:

1. AC input
3. RJ45
4. Communication port

2. Outlet



1. Inspection

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

2. Charging

This unit is shipped from the factory with its internal battery fully charged, however, some charge may be lost during shipping and the battery should be recharged prior to use. Turn on the UPS, Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged in for at least 6 hours with no load (no electrical devices such as computers, monitors, etc.) connected.



6 hours

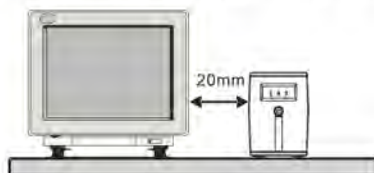


3. Placement

Install the UPS unit in any protected environment that provides adequate airflow around the unit, and is free from excessive dust, corrosive fumes and conductive contaminants. Do not operate your UPS in an environment where the ambient temperature or humidity is high.



On the other hand, place the UPS away from the monitor at least 20cm to avoid interference.



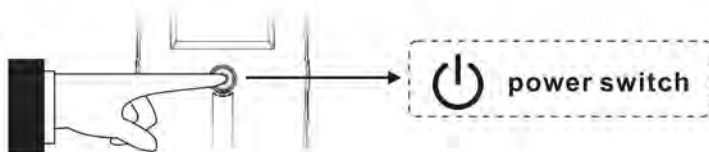
4. Connection

Plug the UPS into a 2-pole, 3-wire grounded receptacle. Then connect one computer-related device into each of the power receptacles supplied on the back of the UPS.



5. Turn On/Off

To turn on the UPS unit, press the power switch lightly. To turn off the UPS unit, press the power switch again.



6. DC Start

All Series are equipped with DC Start. To start the UPS when AC utility power is not available, simply press the power switch.

SPECIFICATION

Model	850	1200	1500	2500	3000
Capacity	360W	600W	720	900	1800
Power factor	0.6				
Load type	Personal computer and other PC peripheral devices				
AC voltage range	(140-290)±5Vac			(140-285)±5Vac	
AC frequency range	(40~70)±1Hz				
Output range (Line mode)	220Vac/ 230Vac ± 10% (Sine wave)				
Output frequency (Line mode)	Synchronize with the input frequency				
Output voltage range (battery mode)	220Vac/ 230Vac ± 5% (Square wave)				
Output frequency range (battery mode)	(50/60) ± 1Hz (Frequency self-adapt system)				
Transfer time	≤ 10ms				
Battery protection	Auto protection. The UPS auto shutdown when battery voltage is low or high.				
Battery charging time	8 hrs to fully charged				
Short circuit protection	Auto protection. Output shuts off and the buzzer beeps continuously				
Overload protection	110% < Loading ≤ 120%, buzzer beeps; output shuts and buzzer beeps continuously. > 120%, output shuts off, buzzer beeps continuously.				
Operating temperatures	0°C~ 40°C				
Storage temperatures	-15°C ~ 45°C				
Relative humidity	0%-90% (No condensation water)				
Noise	≤35dB (1m from front panel)				
Size/L×W×H (mm)	323x135x208	475x163x230	475x163x230	550x205x278	550x205x278
Net weight (kg)	4.7	9	9.3	17.3	22



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