

Quick Start Guide

Fast-Recharge UPS
FR-1097-4S

I. Important - Warnings and Safety Instructions

1. This UPS utilizes voltages that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only authorized service personnel may perform repairs.
2. Each internal battery voltage is 12 V DC - Sealed, lead-acid, 6-cell battery.
3. Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as can violate local electrical codes.
4. In the event of an emergency, switch OFF the Power Switch and disconnect the power cord from the AC power supply to properly disable the UPS.
5. 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.
6. This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in location where there is standing or running water, or excessive humidity.
7. DO NOT plug the UPS input into its own output.
8. DO NOT attach a power strip or surge suppressor to the UPS.
9. DO NOT attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens or vacuum cleaners to UPS.
10. To reduce the risk of overheating the UPS, do not cover the UPS cooling vents and avoid exposing the unit to direct sunlight. Additionally, refrain from installing the unit near heat emitting appliances such as space heaters or furnaces.
11. Unplug the UPS prior to cleaning and do not use liquid or spray detergents.



Away from sunlight



Away from water



Away from heater

12. DO NOT dispose of batteries in a fire as they may explode.
13. DO NOT open or destroy the battery or batteries. Released electrolyte is harmful to the skin and eyes, and might be toxic.
14. Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions should be taken. Keep unauthorized personnel away from batteries.
15. When replacing batteries, replace with the same number of the sealed lead-acid batteries.
16. The batteries already installed by the supplier are operator installable and may be operated by laymen.
17. The main socket outlet that supplies the UPS shall be installed near the UPS and should be easily accessible.
18. It is recommended to refer all servicing to qualified personnel. Servicing is required when the UPS has been damaged in any way. Any evidence of any attempt to open and/or alter the device, including any scratch, peeling, puncturing, or removal of any of the labels, will void the Limited Warranty.

II. In the box

1 x Fast-Recharge UPS FR-1097-4S

1 x Quick Start Guide

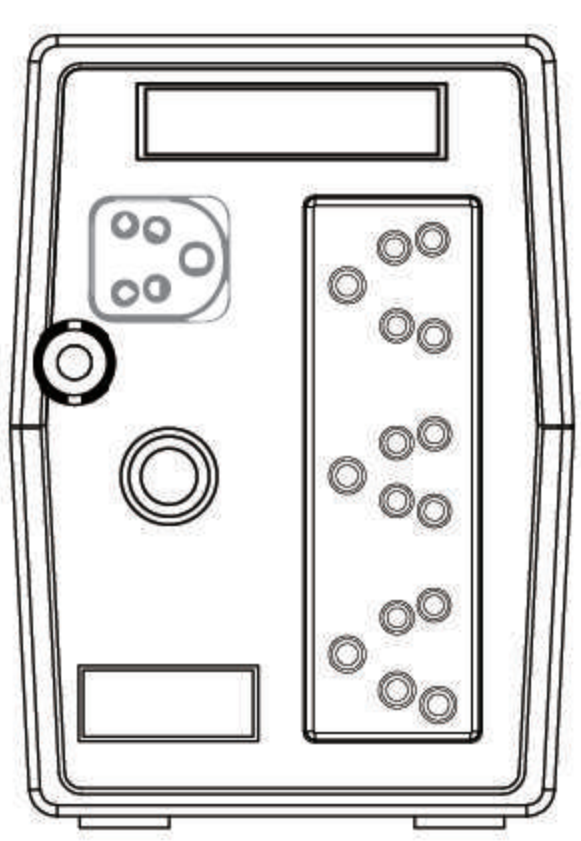
1 x Brand Note

III. System Description

Front View



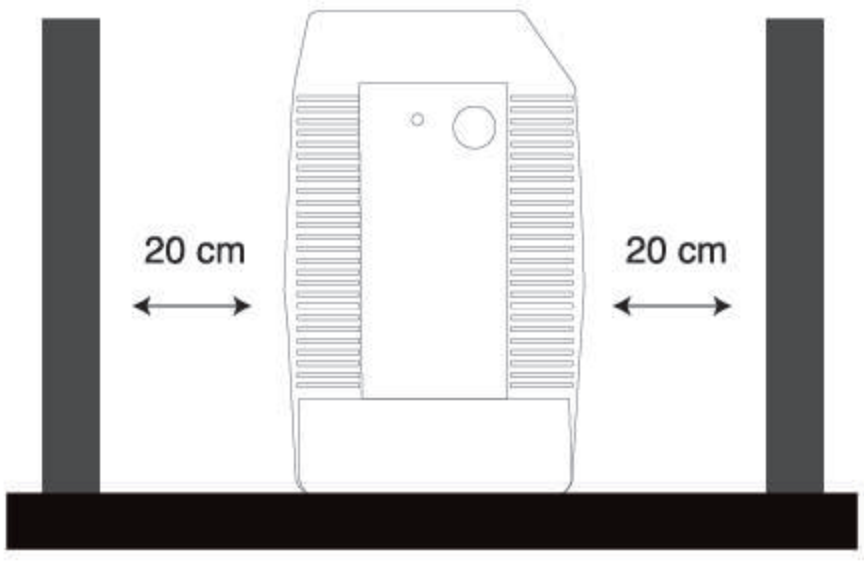
Rear View



IV. Installation and Operation

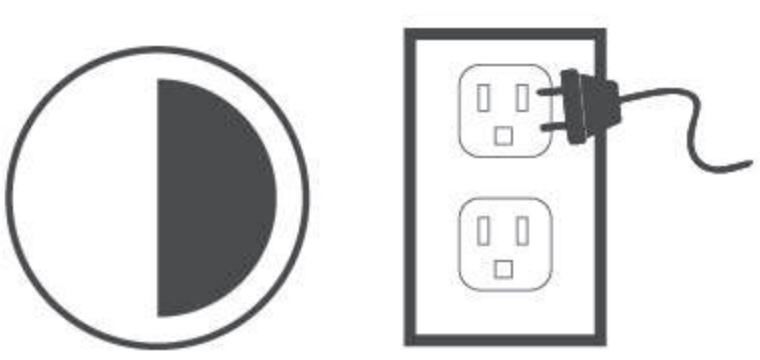
1. Placement

- Install the UPS in a protected area that is free from excessive dust and has good air ventilation.
- We recommend to place the UPS away from other units with at least 20 cm distance to avoid interference.
- Do NOT operate the UPS where the temperature and humidity is outside the specific limits as provided in the specifications.



2. Charging

- Plug in the AC input cord into the wall outlet.
- For the best results, we recommend charging the battery for at least 6 hours prior to initial use.
- The UPS unit charges its battery whenever it is connected with utility power.



3. Equipment Connection to Output Receptacles

- The output receptacles are powered when the UPS is switched ON.
- During power failure or other utility issues, these output receptacles will be powered for a limited time by the UPS.
- Plug it to your computer, and monitor.
- Ensure that Power Switch must be kept in the “ON” position, else the UPS will be disabled and your equipment will not be protected during power failure.

Caution:
Never connect a **laser printer or scanner** with output receptacles.
Laser Printer/ Scanner significantly draws more power when in use.
This may cause overload and consequently damage the UPS unit.

4. Power ON-OFF

- Press the Power Switch to power the UPS unit ON. The connected devices, in turn, will be protected by the UPS.
- Press the power switch to turn OFF the unit.

5. Cold Start Function

It is equipped with Cold Start Function - The UPS can be powered on, without AC utility power and battery is charged. Simply press Power Switch to power on the unit.

V. Status Indicators

LED Display	Green Lighting	The utility power is on and the UPS is on AC Mode.
	Green Flashing	The utility power fails and the UPS is supplying power from battery.

VI. Product Specifications

Capacity	VA/W	1000 VA / 600 W
Input	Voltage	230 VAC
	Voltage Range	140 - 300 V AC
	Frequency Range	50 Hz (Auto sensing)
Output	Output Voltage	230 VAC ± 10%
	Frequency Range (Battery Mode)	50 Hz ± 1%
	Transfer Time	Typical 4-8 ms, 13 ms max.
Battery	Waveform (Battery Mode)	Simulated Sine Wave
	Battery Type	2 x 12V/7 Ah
	Back up Time	90 mins
	Typical Recharge Time	4 hours recover to 90% capacity
LED Indicators	AC Mode	Green Lighting
	Battery Mode	Yellow Flashing
	Fault	Red Lighting
Alarm	Battery Mode	Every 10 seconds Sound Beep
	Low Battery	Every second Sound Beep
	Overload	Every 0.5 second Sound Beep
	Fault	Continuous Sound Beep
Protection	Full Protection	Overload, Discharge and Overcharge Protection
Physical	Power Outlet	4 Outlets
	Dimension (D x W x H)	320 x 130 x 182 mm
	Net Weight	7.2 kg
Environment	Humidity	0-90% RH @ 0-40°C (non-condensing)
	Noise Level	Less than 40 dB

VII. Troubleshooting

Refer to the following to table for solutions, in case you come across any issues during UPS installation and operation.

Problem	**Possible Cause**	**Solution**
No LED display on the front panel	Low Battery Voltage	Re-charge battery for up to 8 hours.
	Battery defect	Replace with the same type of battery.
	Power Switch is not pressed ON	Press the power switch to turn ON the UPS.
Alarm buzzer beeps continuously when AC supply is normal	UPS is overloaded	Remove some loads first. Before re-connecting the devices, do verify that the load matches the UPS capability as mentioned in the specifications.
When power fails, backup time is shortened	UPS is overloaded	Remove some non-critical load.
	Low Battery Voltage	Charge the battery for at least 6 hours.
	Battery defect due to high temperature operation environment, or improper operation to battery	Replace the battery of the same type.
Utility power is normal but orange LED is on/UPS is on battery mode.	Fuse is blown	Replace the same type of fuse.
	Loose Power cord	Reconnect the power cord.
	Battery defect	Replace the same type of battery.

If any abnormal situations are not listed above, please connect service personnel immediately.

Care and Maintenance

1. Switch off the UPS before cleaning it.
2. Use soft, damp cloth to clean the surface.
3. Do not use any chemicals, solvents, or cleaning solutions containing alcohol,ammonia or abrasives.
4. Do not allow any liquid to enter into any of the openings.

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Ver.: 1.0.0