

Line Interactive UPS

User Manual

V1.0.0

Foreword

General

This manual introduces the functions and operations of the distance measurement sensor (hereinafter referred to as "the Device").

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
	Provides methods to help you solve a problem or save time.
	Provides additional information as a supplement to the text.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing

- between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the Device, hazard prevention, and prevention of property damage. Read carefully before using the Device, comply with the guidelines when using it, and keep the manual safe for future reference.

Operation Requirements



- Make sure that the power supply of the device works properly before use.
- Do not pull out the power cable of the device while it is powered on.
- Only use the device within the rated power range.
- Transport, use and store the device under allowed humidity and temperature conditions.
- Prevent liquids from splashing or dripping on the device. Make sure that there are no objects filled with liquid on top of the device to avoid liquids flowing into it.
- Do not disassemble the device.
- Do not place objects on the housing.

Installation Requirements



WARNING

- Connect the device to the adapter before power on.
- Strictly abide by local electrical safety standards, and make sure that the voltage in the area is steady and conforms to the power requirements of the device.
- Do not connect the device to more than one power supply. Otherwise, the device might become damaged.
- The product shall use electric wires (power wires) recommended by this area which shall be used within its rated specification.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Note that the power supply requirements are subject to the device label.
- If power plug or appliance coupler is a disconnecting device, please ensure its convenient operation.



- Observe all safety procedures and wear required protective equipment provided for your use while working at heights.
- Do not expose the device to direct sunlight or heat sources.
- Do not install the device in humid, dusty or smoky places.
- Install the device in a well-ventilated place, and do not block the ventilator of the device.
- Use the power adapter or case power supply provided by the device manufacturer.
- Connect class I electrical appliances to a power socket with protective earthing.
- Use the device only within rated input and output range.
- Make sure to use all the accessories recommended by manufacturer.
- Before installation, please open the package and check all the components are included.
- Contact the local dealer or the nearest service center if something is broken in your package.

Package Contents

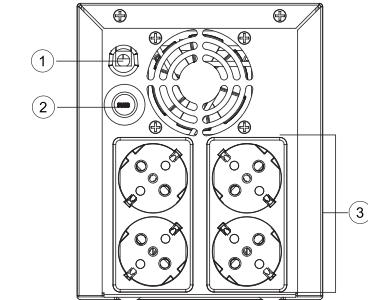
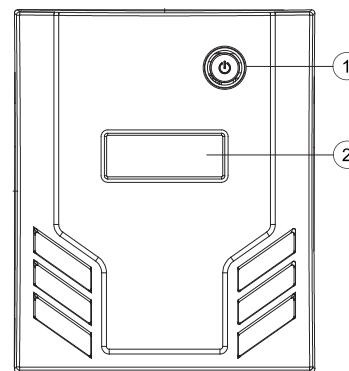
You should have received the following items inside of package:

- UPS Unit
- User Manual
- Legal and Regulatory Information

2 Product

Overview Front View

Figure 2-1 Front View



- ① : AC input
- ② : AC input fuse
- ③ : Output receptacles

The output receptacles type may differ for different country models.

3 Installation and Initial Start up

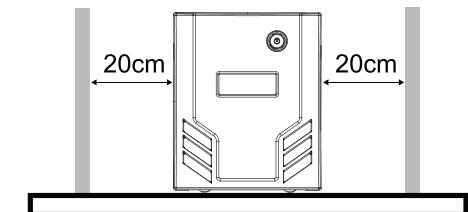


Before installation, please inspect the unit. Be sure that nothing inside the package is damaged.

3.1 Placement and Storage Conditions

Install the UPS in a protected area where 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.

Figure 3-1 Placement



DO NOT operate the UPS where the temperature and humidity is out of the specific limits. (Please check the specs for the limitations.)

Figure 3-2 Storage Conditions

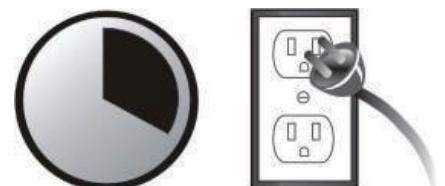


3.2 Connect to Utility and Charging

Plug in the AC input power cord to the wall outlet. For the best results, it is suggested to charge the battery for at least 6 hours.

Before initial use, the UPS charges its battery while connecting to the utility.

Figure 3-3 Utility and Charging



3.3 Connect the Loads

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 are protected.



NEVER connect a laser printer or scanner to the UPS unit. This may cause the damage of the unit.

Figure 3-4 Connecting Caution



3.4 Turn On/Off the Unit

- Turn on the UPS unit by pressing the On/Off switch.
- Turn off the UPS unit by pressing again the On/Off switch.

4 Trouble Shooting

Use the table below to solve minor problems.

Table 4-1 Trouble Shooting

Problem	Probable Cause	Solution
No LED/LCD display 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 switch again to turn on the UPS.
Alarm continuously sounds when the mains is normal.	The UPS is overload.	Remove some loads first. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specs.
When power fails, backup time is shorten.	The UPS is overload.	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 LED/LCD is flashing.	Power cord is loose.	Reconnect the power cord properly.



In the event of any emergency, press the OFF button and disconnect the power cord from the AC power supply to properly disable the UPS.



Do not attach a power strip or surge suppressor to the UPS.



With the installation of this equipment, it should be prevented that the sum of the leakage current of the UPS to the connected consumer exceeds 3.5mA.



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 and isolated first when maintenance or service work inside the UPS is necessary.



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 the batteries, use the same number and same type of batteries.



Internal battery voltage is 12 VDC. Sealed, Lead-acid, 6-cell battery.



Do not dispose of batteries in a fire. The battery may explode. Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes.



Unplug the UPS prior to cleaning and do not use liquid or spray detergent.



A battery can present a risk of electric shock and high shortcircuit current. The following precaution should be observed before replacing batteries:
1 Remove watches, rings, or other metal objects.
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 terminal.

5 Important Safety Warning

Please follow these precautions when using the product, and keep this document for future reference.



To prevent the risk of fire or electric shock, install UPS in a temperature and humidity controlled indoor area free of conductive contaminants. (See the specifications for the acceptable temperature and humidity range.)



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 heaters or furnaces.



Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.



Do not plug the UPS input into its own output.



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.