

# USER'S MANUAL LINE-INTERACTIVE UPS

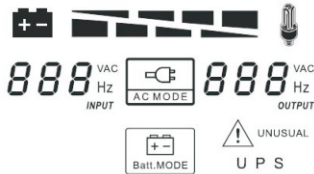
**MU650VS/MU1500VS**

## 1. Package Contents

You should have received the following items inside of package:

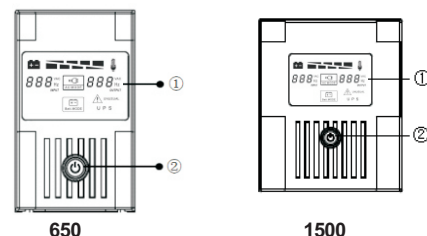
- UPS Unit - User Manual
- CD and USB cable (optional)

## 2. LCD Display



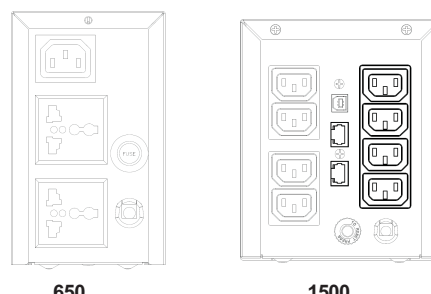
## 3. Product

Front



1. LCD Display
2. On/Off Switch

Back

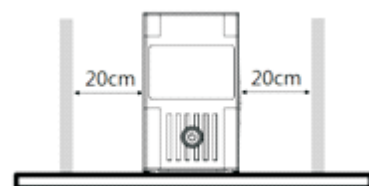



## 4. Installation and Initial Startup

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 where is free of excessive dust and has adequate air flow. Please place the UPS away from other units at least 20cm to avoid interference. Do NOT operate the UPS where the temperature and humidity is out of the specific limits. (Please check the specs for the limitations.)






### 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 4 hours battery while connecting to the utility regardless of that it is on or off.

### 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.



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

### Connect USB cable (Optional)

Connect the USB cable to UPS and Computer, insert CD to computer and follow the wizard to install the monitoring software properly.

### Connect Modem/Phone for Surge Protection (Optional)

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/Modem with phone line cable.

### 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.

### 5. Important Safety Warning (SAVE THESE INSTRUCTIONS) CAUTION!

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.

1

2



**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 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 any 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.

**CAUTION!** 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.

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

**CAUTION!** Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.

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

**CAUTION!** Internal battery voltage is 12V/DC. Sealed, Lead-acid, 6-cell battery.

**CAUTION!** 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.

**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 high short circuit current. The following precaution should be observed before replacing batteries:

- Remove watches, rings, or other metal objects.
- Use tools with insulated handles.
- Wear rubber gloves and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect charging source prior to connecting or disconnecting batteries terminal.

## 6. Trouble Shooting

Use the table below to solve minor problems.

Problem	Probable Cause	Solution
No LCD/LED 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.
Alarm continuously sounds when the mains is normal.	The UPS is not turned on.	Press the switch again to turn on the UPS.
	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.
The mains is normal but LCD/LED is flashing.	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.
	Power cord is loose.	Reconnect the power cord properly.

## 7. Specification

Model	MU650VS	MU1500VS
<b>CAPACITY</b>	650 VA / 360 W	1500VA / 720W
<b>INPUT</b>		
Voltage	230 VAC	
Voltage Range	140-300 VAC	
<b>OUTPUT</b>		
Voltage Regulation	+/-10%	
Transfer Time	Typical 26 ms, 10 ms max.	
Waveform	Simulated Sine Wave	
<b>BATTERY</b>		
Type & Number	12 V/7 AH x 1	12 V/9 AH x 2
Charging Time	6 hours recover to 90% capacity	
<b>PHYSICAL</b>		
Dimension (DxWxH mm)	320x 90 x 150	370x 135 x 165
Net Weight (kgs)	5,4	9,5
<b>ENVIRONMENT</b>		
Humidity	0-90 % RH @ 0-40°C (noncondensing)	
Noise Level	Less than 40 dB	

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3

4