

## Mantis 750/1000/1500/2000 LINE INTERACTIVE SINEWAVE UPS



### IMPORTANT SAFETY INSTRUCTIONS

#### SAVE THESE INSTRUCTIONS!!

This manual contains instructions and warnings that should be followed during the installation, operation and storage of the UPS systems.

#### Installation Warnings

- This UPS utilizes voltage that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only factory service personnel may perform repairs.
- This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.
- 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.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- 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 any 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.
- 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 heater or furnaces.

#### UPS Connection Warnings

- 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.

#### Battery Warnings

- Do not dispose of batteries in a fire as they may explode.
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- Do not open or mutilate the battery or batteries. Release 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 terminal.
- Internal battery voltage is 12VDC. Sealed, lead-acid, 6-cell battery.
- When replacing batteries, replace with the same number and type of sealed lead-acid battery.
- 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 at the connectors of the battery when maintenance or service work inside the UPS is necessary.

### STORAGE & PLACEMENT

#### Storage

All connected equipment should be turned off, then disconnect from the UPS to avoid battery drain. Unplug the UPS from the wall outlet. Then press ON/OFF button to turn off the UPS. The UPS is ready for storage. Store the UPS unit covered and upright in a cool, dry location with its battery fully charged. Before storing, charge the UPS unit for at least 4 hours. Disconnect any loads and cables to avoid unnecessary drainage of the battery.

#### Placement

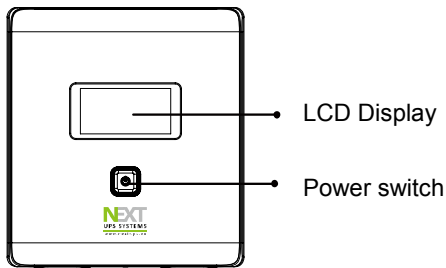
Install the UPS in a protected area that is free of excessive dust and has adequate air flow. Place the UPS away from other units at least 20 cm to avoid interference. For best performance, keep the indoor temperature between 0 °C and 40 °C.

### SPECIFICATIONS

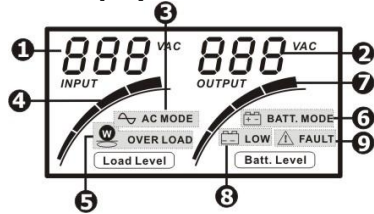
MODEL	Mantis 750	Mantis 1000	Mantis 1500	Mantis 2000
<b>CAPACITY</b>	750VA 480W	1000VA 600W	1500VA 900W	2000VA 1200W
<b>Input Voltage</b>	220/230/240 VAC			
<b>Input Voltage Range</b>	162 – 290 VAC			
<b>Output Voltage Regulation (Battery mode)</b>	± 10 %			
<b>Transfer Time (Typical)</b>	2-6 ms			
<b>Waveform</b>	Pure Sine Wave			
<b>Battery Type &amp; Number</b>	12V 9Ah x 1	12V 7Ah x 2	12V 9Ah x 2	12V 10Ah x 2
<b>Charging Time</b>	6 hours recover to 90% capacity			
<b>Dimension (DxWxH) mm</b>	350 x 146 x 160		397 x 146 x 205	
<b>Net Weight (kgs)</b>	6.8	9.0	12.2	13.7
<b>Humidity</b>	0-90% RH @ 0-40°C (non-condensing)			
<b>Noise Level</b>	Less than 45dB		Less than 55dB	

## OVERVIEW

### Front Look

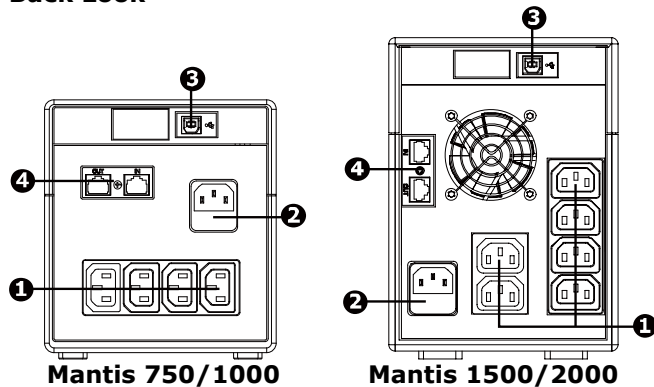


### LCD display:



- ❶ Input voltage
- ❷ Output voltage
- ❸ AC mode indicator
- ❹ Load level
- ❺ Overload indicator
- ❻ Battery mode indicator
- ❼ Battery level
- ❽ Low battery indicator
- ❾ Fault indicator

### Back Look



- ❶ Output receptacles
- ❷ AC input
- ❸ USB communication port
- ❹ Modem/phone/network surge protection

## INSTALLATION

### 1. Plug the UPS into a wall outlet.

The UPS must charge for at least 6 hours to ensure full runtime before initial use. Even though UPS is off, it will still automatically charge the battery.

### 2. Plug your equipment into the UPS.

All output receptacles provide battery backup and surge protection. Plug your computer, monitor, and other critical devices there.



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

### 3. Connect Modem/Phone/Network

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.

### 4. Connect Communication Port

To allow for unattended UPS shutdown/start-up and status monitoring, connect the communication cable one end to the USB 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

### 5. Software Installation

1) Insert the included installation CD into CD-ROM drive and then follow the on-screen instructions. If there is no CD included, please go to the website <http://www.nextups.eu/software> to download NEXTVision software.

2) When your computer restarts, the monitoring software will appear as a green "N"EXT icon located in the system tray, near the clock.

### 6. Power On/Off

Press power switch on the front panel of the UPS to turn on UPS. Press switch again to turn off the UPS.

## TROUBLESHOOTING

Problem	Possible Cause	Solutions
Nothing 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 power 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, back-up 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 UPS is on battery mode.	Power cord is loose.	Reconnect the power cord properly.