

## TROUBLESHOOTING

Problem	Possible Cause	Solutions
Nothing is displayed on LCD panel.	The UPS is not on.	Press the power switch again to turn on the UPS.
	Battery voltage is too low,	Charge the battery at least 6 hours.
	Battery fault.	Replace the battery.
The UPS always on battery mode.	Power cord loose.	Re-plug the power cord.
Backup time too short,	Battery voltage is too low.	Charge the battery at least 6 hours.
	Overload.	Remove some unnecessary loads. Before reconnecting equipment, please verify that the load matches the UPS capability specified in the specs.
	Battery defect.	Replace the battery.

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

# Newell®

UPS650VA/1  
UPS650VA  
UPS1000VA  
UPS2000VA

## INSTALLATION & OPERATION

### ① Inspection

The following items are inside the box:

- UPS unit
- User manual

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

### ② Connect to Utility Power

Connect AC power cord to utility power. Then, the UPS will start to charge inside battery. For best result, charge the battery for 6 hours prior to initial use.

### ③ Plug in Equipment

Plug your equipment to Battery Backup Outlets on the rear panel of the UPS.

**NOTE:** Make sure that the UPS is powered on to protect all important devices from data loss during power failure.

**CAUTION: NEVER** connect a laser printer or scanner to the battery backup outlets of UPS. The equipment may draw significantly power to overload the UPS.

### ④ Turn On/Off the UPS

To turn on the UPS unit, press the power switch lightly. Then, the LCD will display UPS status. To turn off the UPS unit, press the power switch again. Then, LCD display will shut off.

- 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.
- Do not open or mutilate the battery or batteries. Release electrolyte is harmful to the skin and eyes. It may be toxic.
- 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.
- 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.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.

## SPECIFICATIONS

Model	UPS650VA/1	UPS650VA	UPS1000VA	UPS2000VA
Capacity(VA)	650VA/390W	650VA/390W	1000VA/600W	2000VA/1200W
Input Voltage(V)	220Vac			
Input Voltage range(V)	145V-275Vac			
Input Frequency(Hz)	50Hz ± 1% OR 60Hz±1%			
Output Voltage range(V)	220V ± 10%			
Transfer time	Typical 4-6ms			
Waveform	Simulated Sine Wave			
Type	12V7AH*1	12V7AH*1	12V9AH*2	12V9AH*2
Typical recharge time	8 hours recover to 90% capacity			
Dimension(mm)	330*100*150	330*100*150	365*140*165	365*140*165
Weight(Kg)	5	5	9.7	12
Humidity	0-90%RH @ 0-40°C(non-condensing)			
Noise Level	Less than 50dB			
USB Communication Port	NO	YES		
RJ45	NO	YES		



## SAFETY CAUTION

SAVE THESE INSTRUCTIONS-This manual contains important instructions that should be followed during installation and maintenance of the UPS and batteries.

- 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.
- 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.
- 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.
- Do not dispose of batteries in a fire as they may explode.
- 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.

## PLACEMENT & STORAGE

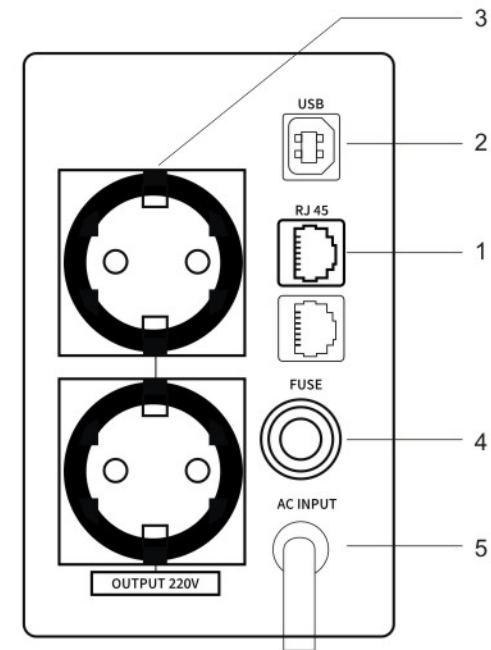
### Placement

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.

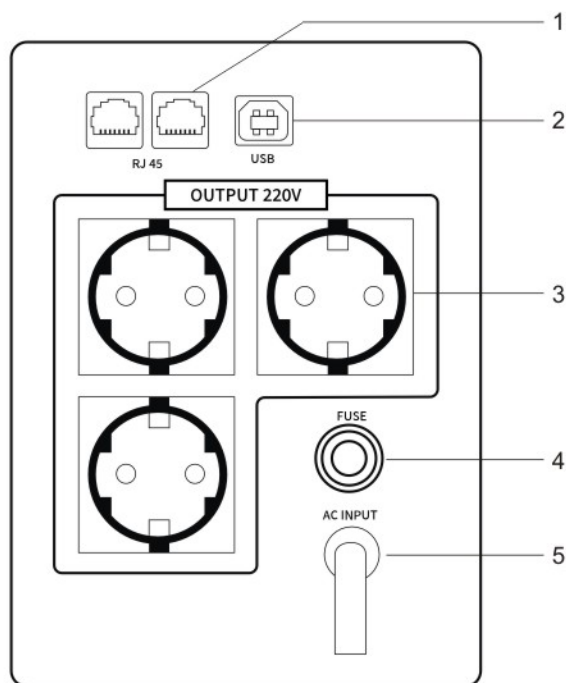
### Storage

All connected equipment should be turned off, then disconnect from the UPS to avoid battery drain. Unplug the UPS from the wall outlet. Then turn off the UPS for storage. Store the UPS unit covered and upright in environments where the ambient temperature is -20° C to 50° C with its battery fully charged.

## REAR PANEL



UPS650VA/1  
UPS650VA



**UPS1000VA/UPS2000VA**

- 1,Phone surge protection(option)
- 2,USB port(option)
- 3,Battery backup outlets
- 4,Circuit breaker
- 5,AC input

## LCD DISPLAY

### Operation Display

UPS Mode	LCD	Description
UPS Power on		UPS is powered on.
AC Mode		LCD information will be displayed in the following order when LCD is touched. 1,Output voltage 2,Input voltage 3,Load level 4,Battery capacity
Overload in AC mode		When overload occurs, alarm will beep every 0.5 second.
Battery Mode		Alarm will beep every 10 seconds and LCD information will be displayed in the following order when LCD is touched. 1,Output voltage 2,Input voltage 3,Load level 4,Battery capacity
Overload in Battery mode		When overload occurs, alarm will beep every 0.5 second.