

# **NIRANTARUPS-621V** UNINTERRUPTIBLE POWER SUPPLY



## **User Manual**

*Designed For Excellence.*

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Thank you for choosing **iBall Nirantar UPS-621V**. Please read the user manual carefully before operation and save this user manual for further reference.

### **Important Safety Instructions:**

- *The voltages inside UPS may be hazardous. Do not attempt to disassemble the unit. The unit contains no user serviceable parts. Only factory service personnel may perform repairs. Kindly approach our service team with reference to the following link for service support :*

### **Warranty Policy**

- *Internal battery voltage is 12Vdc. Sealed, lead-acid, battery.*
- *Connection to any other type of socket other than a two-pole, three-wire grounded socket may result in shock hazard as well as violating 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 liquids or any external objects to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.*
- *This unit is designed for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in output.*

- Do not attach a power strip or surge suppressor to the UPS.
- Do not connect non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
- 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 air heaters or furnaces.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- Do not dispose of the batteries in fire as they may explode. Do not open or mutilate the battery or batteries. The released 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:
  - a) Remove watches, rings, or other metal objects from the hands.
  - b) Use tools with insulated handles.
  - c) Wear rubber gloves and boots.
  - d) Do not lay tools or metal parts on top of battery terminals.
- Servicing of batteries should be performed or supervised by technical and authorized personnel

only.

- When replacing the battery, replace it with the same type of sealed lead-acid battery. The maximum ambient temperature rating is 40°C.

### **UPS Installation Procedure**

- Your new UPS may be used immediately; however, recharging the battery for at least 8 hours (no load) is recommended to ensure that the battery maximum charge capacity is achieved. Charge loss may occur during shipping and storage. To recharge the battery, simply leave the unit plugged into an AC outlet. The unit will charge in both the on and off position.

- With the UPS unit off and unplugged, connect the computer, monitor, and any externally powered data storage device (Zip drive, Jazz drive, Tape drive, etc.) into the battery power supplied outlets. DO NOT plug laser printer, copier, space heater, vacuum, paper shredder or other large electrical device into the battery power supplied outlets. The power demands of these devices will overload and possibly damage the unit. wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands (e.g. air conditioner, refrigerator, copier, etc. Avoid using extension cords.

- Press the power switch to turn the unit ON. The power on indicator light will illuminate and

the unit will "beep".

- *If an overload is detected, an audible alarm will sound and the unit will emit a beep once every 0.5 seconds. To correct this turn the UPS off and unplug at least one piece of equipment from the battery power supplied outlets. Wait 10 seconds Make sure the fuse is normal and then turn the UPS on.*
- *To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.*
- *To store your UPS for an extended period, cover it and store with the battery fully charged. Recharge the battery every three months to ensure battery life.*

## Features :

- Line Interactive UPS
- Auto-Recovery Restart
- Boost & Buck Regulator
- Automatic Voltage Regulation (AVR)
- Works in Wide Voltage Range

## Specification :

Capacity (VA/W) : 600VA/360W

### Input

Nominal Voltage : 220-240 VAC

Voltage Range : 140-300 VAC

Frequency : 50/60 Hz

Plug Type : 3 Pin Plug

### Output

Voltage Range : 230VAC  $\pm$  13 % (AC Mode)

Voltage Range : 230VAC  $\pm$  10 % (Batt. Mode)

Frequency Range : 50/60Hz  $\pm$ 1% (Batt. Mode)

Transfer Time : 4-8ms

Waveform : Simulated Sine Wave

No. of Sockets : 3 (Output)

Protections : Overload, Short Circuit,  
Over Discharge &  
Over Charge

### Battery

Battery Type : 12V 7Ah x 1 No.

Charging Current : 1.4A

Recharge Time : 6-8h to Charge 90%  
(After Complete Discharge)

### Indicators

No. of LEDs : 3 LED  
AC Mode : Green LED Glows  
Battery Mode : Yellow LED Blinks  
Fault Mode : Red LED Glow

### Alarm

Battery Mode : Beeping every 10 Seconds  
Low Battery : Beeping every 1 Second  
Overload : Beeping every 0.5 Second  
Fault : Continuous Beeping

### Physical Details

Dimension : 10.1 x 27.9 x 14.2 cm  
(W x D x H)  
Net Weight : 4.1 kg

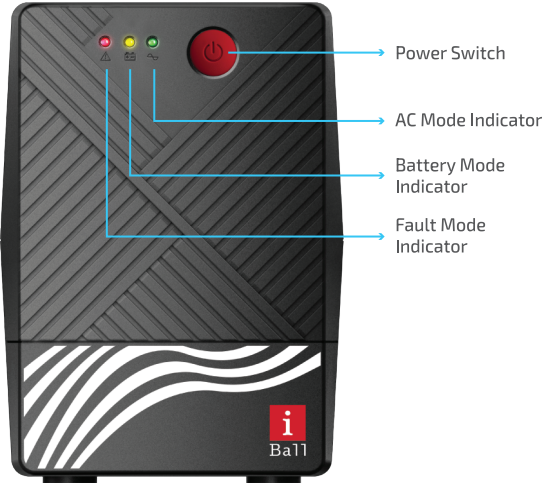
### Environmental Factors

Operational Temp. : 0-40°C  
Noise Level : < 40dB

### Package Contents :

UPS : 1 U  
QR Code Guide : 1 U

# Product Description :



## Power On/Off (AC Mode)

To turn on the UPS unit, press the power switch lightly. To turn off the UPS unit , press the power switch again.

## Power On/Off (Battery Mode)

To turn on the UPS unit,press the power switch lightly.When there is a power shutdown on Main AC supply the UPS automatically shifts to Battery Mode with AC utility Power Output.

## LED Indication and Alarm

Condition	Indication	Alarm
Normal	Green LED Glows	-
Battery Discharge	Yellow LED Blinks	Beep once every 10 Seconds
Battery Low	Yellow LED Flashes	Beep once every 1 Second
Overload	Yellow LED Flashing	Beep once every 0.5 Second
Fault	Red LED Glow	Continuous Alarm

## Troubleshooting

Problem	Possible Cause	Solution
No LED Indicator on the front panel	Battery Weak	Charge battery up to 8 hours
	Battery Defect	Replace with the same type of battery
	Power switch is not pressed	Press the power switch again
Alarm buzzer beeps continuously when AC supply is normal	Overload of the UPS	Verify that the load matches the UPS capability specified in the specs
When power failure, back-up time is shorten	Overload of the UPS	Remove some non-critical load
	Battery voltage is too low	Charge battery 8 hours or more
	Battery defect due to high temperature operation environment, or improper operation to battery	Replace with the same type of battery
Mains normal but Battery Mode indicator yellow LED is flashing (for LED model)	Power cord is loose	Reconnect the power cord properly

**Note :** *If any abnormal situations occur that are listed above, please call the service person immediately.*



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