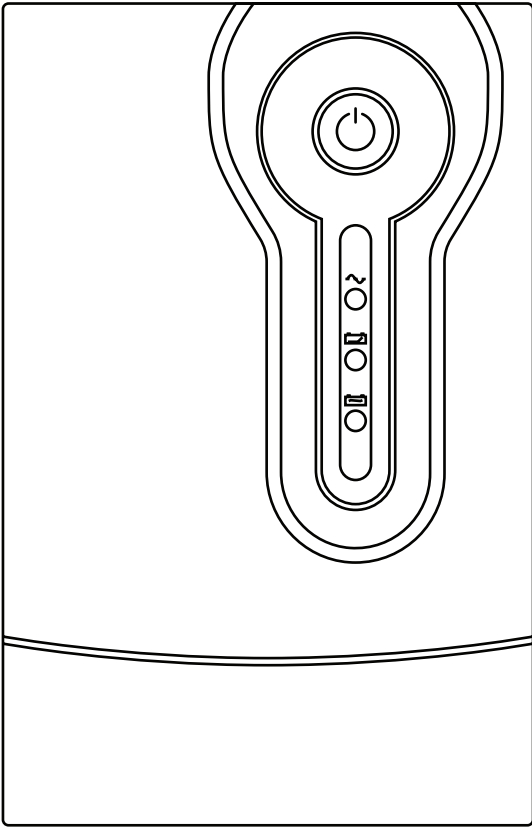


# UNINTERRUPTIBLE POWER SUPPLY

## INSTRUCTION AND OPERATING MANUAL



MODEL: 650VA

## Introduction

This uninterruptible power supply (UPS) is designed to protect **routers and modems** from electrical surges during a power outage. When AC power is available, the UPS will pass through AC power and filter out any small fluctuations. During a power outage, the UPS will immediately switch to the internal battery to provide power to connected equipment.

## Installation

1. Plug the power cord from the UPS into an AC wall outlet. Ensure the voltage and frequency of the AC input meet the requirements of the UPS.

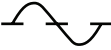





**ATTENTION: Charge the battery for at least 8 hours before using the UPS.**

2. Press and hold the red power button for two seconds to turn on the UPS.
3. Plug the power cord of the router and/or modem into the back panel of the UPS. Turn on the equipment.

**ATTENTION: Do not connect a laser printer to the UPS. Laser printers draw excess power and may damage the UPS.**

4. Ensure the UPS is placed in a safe location, out of direct sunlight and not exposed to extreme temperatures.

## LED and Audible Alarm

STATUS	LED	AUDIBLE ALARM	ACTION
AC Power Operation	 Green LED	N/A	AC power available.
	 Twenty second blinking Yellow LED	N/A	Battery charging on AC power.
	 Solid Yellow LED	N/A	Battery full.
Battery (DC) Power Operation	 Red LED	Sounding once every 6 seconds.	Operating on battery power. Sufficient battery capacity.
Battery (DC) Power Operation	 Red LED	Sounding once every 1 second.	Operating on battery power. Insufficient battery capacity.
Battery (DC) Power Exhausted	 Red LED	Continuous sounding.	Battery depleted. Connected equipment will power off.

## Troubleshooting

ISSUE	POSSIBLE CAUSE	SOLUTION
LED not illuminating	Input power fault	Check power input
	Time pressing power button too short	Press the power button for at least two seconds
Audible alarm sounding every six seconds with blinking red LED	Power failed	Check power input
Red LED illuminating, constant audible alarm	Overload	Reduce equipment load
	Battery voltage low	Charge UPS

## Specifications

MODEL		650VA
Input	Voltage	110 VAC $\pm$ 15%
	Frequency	60 Hz
Output	Voltage	110 VAC
	Frequency	60 Hz
	Transfer Time	<10 msec
	Waveform	Sine wave during AC pass through, square wave during battery operation
Protection	Load Input	Overload and short circuit protection
	Short Circuit	
Battery	Type	Sealed Lead Acid Battery
	Capacity	7.2 Ah
	Protection	Auto-inspection, discharge protection, and battery fault caution
Audible Alarm	Sufficient Battery Capacity	Sounding every 6 seconds with a red LED flash
	Insufficient Battery Capacity	Sounding every 1 second with a red LED flash
	Low Battery Voltage	Continuous sounding with a constant red LED
	Overload/short circuit	

