



# UPS6LI Series

## Compact Standby UPS with Lithium Battery

Models UPS6LI-350, UPS6LI-600

User & Installation Manual

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# Table of Contents

- 1. Package Contents.....3
- 2. Product Introduction.....3
- 3. Product Overview.....3
- 4. Installation & Initial Startup .....4
- 5. Indicators & Alarm Conditions .....4
- 6. Important Safety Instructions (save).....5
- 7. Troubleshooting.....7
- 8. Specifications .....8
- 9. Obtaining Service .....9
- 10. Limited Warranty .....10

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## 1. Package Contents

You should be receiving the following items inside the package:

- UPS Unit
- Local Monitoring Software CD

## 2. Product Introduction

Thank you for selecting this Uninterruptible Power Supply (UPS). It provides you with protection for connected equipment. Please read this manual before installing the UPS as it provides important information that should be followed during installation and maintenance of the UPS and batteries, allowing you to correctly set up your system for the maximum safety and performance. Included is information on customer support and service, if it is required. If you experience a problem with the UPS, please refer to the Troubleshooting section in this manual to correct the problem. If the problem is not corrected, please collect information so that the Technical Support personnel can more effectively assist you.

## 3. Product Overview

The UPS6LI Series' advanced design combines the benefits of lithium powered UPS and advanced surge suppression technology. Slim form factor (just 1.25", 350 model only), wall mounting, and easy access receptacles make it ideal for mounting behind thin display screens used in hotels, restaurants, hospitals, campuses, airports and other commercial areas.

The UPS's compact design is appealing to the digital signage industry, it is also excellent for providing protection to kiosks, gaming machines, computers, point-of-sale equipment, and small printers.



UPS6LI-350



UPS6LI-600

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## 4. Installation & Initial Startup

**Note:** Before installation, inspect the unit and packaging to make sure that nothing inside has been damaged.

### Connect UPS to Utility and Charging

Before the initial use of the UPS, plug the UPS input cord into a wall outlet and turn the UPS on by pressing the Power switch on the back of the UPS. For best results, the batteries in the UPS should be charged for at least 8 hours before use. The UPS charges its battery while it is connected to AC utility power and powered on.

### Connecting the Loads

Plug the loads to be supported by the UPS into the output receptacles on the front of the UPS. Simply turn the power switch on the UPS on and the devices connected to the UPS will be protected by the UPS unit.

### Turn UPS ON / OFF

To turn the UPS unit on, press the power button on the UPS and hold for three seconds. To turn the UPS unit off, press the power button and hold for one second.

### Connecting Local Monitoring Software (optional)

If it is desired to use the Local Monitoring Software, and if your UPS is equipped with USB communications, connect a USB cable from your computer to the UPS, and install the software from the CD.

## 5. Indicators & Alarm Conditions

Condition	Visual Indicator	Alarm
AC mode	LED illuminated	No Audible Alarm
Battery mode	LED flashes every 10 seconds	Audible Alarm sounds every 10 seconds
Low battery mode	LED flashes every 1 second	Audible Alarm sounds every 1 second
Fault	LED is illuminated	Audible Alarm is continuous
Alarm for over temperature protection	LED flashes every 0.5 seconds	No Audible Alarm

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## 6. Important Safety Instructions: (Save These Instructions)

– This manual contains important instructions for the UPS6LI Series UPS that should be followed during installation and maintenance of the UPS

**CAUTION! (UPS having Internal Batteries):** Risk of electrical shock – Hazardous live parts inside this unit are energized from the battery supply even when the input AC power is disconnected.

**CAUTION! (No User serviceable Parts):** Risk of electrical shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

**CAUTION! (Non-isolated Battery supply):** Risk of electric shock, battery circuit is not isolated from AC input, hazardous voltage may exist between battery terminals and ground. Test before touching.

**WARNING!** Unit intended for installation in a controlled environment.

**CAUTION!** Do not dispose of batteries in a fire, the battery may explode.

**CAUTION!** Do not open or mutilate the battery, released electrolyte is harmful to the skin and eyes.

**CAUTION:** A battery can present a risk of electrical shock and high short-circuit current. Contact with any part of a grounded battery can result in electrical shock. The following precautions should be observed when working on batteries:

- a) Remove watches, rings, or other metal objects.
- b) Use tools with insulated handles.
- c) Wear rubber gloves and boots.
- d) Do not lay tools or metal parts on top of batteries.
- e) Disconnect charging source and load prior to installing or maintaining the battery.
- f) Remove battery grounds during installation and maintenance to reduce likelihood of shock.  
Remove the connection from ground if any part of the battery is determined to be grounded.

EN 62040-2,C2:

**WARNING:** This is a category C2 UPS product. In a residential environment, this product may cause radio interference, in which case the user may be required to take additional measures.

FCC Notice: Class A

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To reduce the risk of electric shock, disconnect the UPS from the main supply before installing a computer interface signal cable. Reconnect the power cord only after signaling interconnections have been made.

Servicing of batteries should be performed or supervised by personnel with knowledge of batteries and the required precautions. Keep unauthorized personnel away from batteries.

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The instructions contained within this safety manual are deemed important and should be closely followed at all times during installation and follow-up maintenance of the UPS and batteries.



**CAUTION:** The unit has a dangerous amount of voltage. If the UPS indicator is on, the unit's outlets may have a dangerous amount of voltage even when not plugged into the wall outlet because the battery may continue to supply power.

Care should be taken to undertake installation indoors, free from electrically-conductive particles which are under temperature and humidity control, in order to reduce the risk of electric shock.

It is best to disconnect the device using the power supply cord. Ensure that the equipment is placed in a position near the outlet where easily accessible.

The socket-outlet shall be installed near the equipment and shall be easily accessible

**CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS**

All servicing on this equipment must be carried out by qualified service personnel.

Before conducting any maintenance, repair, or shipment, first ensure that everything is turned off completely and disconnected.

## 7. Troubleshooting

Condition	Visual Indicator	Alarm
No LED display on the front UPS panel	Low battery	Charge the UPS at least 8 hours
	Battery fault	Replace the battery with the same type of battery
	The UPS is not turned on	Press the Power Switch on the front of the UPS
Alarm continuously sounds when the AC input is normal	The UPS is overloaded	Remove some of the load from the output of the UPS
	UPS fault	Return the unit for service
Alarm continuously sounds when the AC input is normal	Battery defect	Replace the battery with the same type of battery
	Charging circuit is damaged	Return the unit for service
When power fails, backup time is shorter than expected	The UPS is overloaded	Remove some of the load from the output of the UPS
	Battery voltage is too low	Charge the UPS at least 8 hours
	Battery defect	Replace the battery with the same type of battery
The AC input is normal but the blue LED is flashing	Power cord is loose	Reconnect the input power cord properly

## 8. Specifications

MODEL NUMBER		UPS6LI-350	UPS6LI-600
CAPACITY	Power rating	350VA (200W)	600VA (360W)
INPUT	Voltage	120VAC	
	Frequency	50/60Hz	
OUTPUT	Voltage	120VAC	
	Waveform	Sine wave (normal), simulated sine wave (battery mode)	
	Frequency	50/60Hz	
	Surge suppression	312 joules	
	Transfer time	2-6 ms (typical)	
BATTERY	Battery type	Lithium Iron Phosphate (LiFePo4)	
	Battery quantity and size	(8) LiFePO4 18650 cells, 2400mAh	(16) LiFePO4 18650 cells, 4400mAh
PHYSICAL	Dimensions (W x D x H)	6.9 x 8.5 x 1.25 in* (175 x 216 x 32 mm)	7.3 x 10.8 x 1.6 in (185 x 275 x 40 mm)
	Weight	3.4 lbs (1.5 kg)	4.9 lbs (2.2 kg)
	Line cord	Detachable 5–15P to C13	
	Receptacles	(3) 5–15R	
ENVIRONMENT	Temperature	32–104°F (0–40°C)	
	Humidity	0–90%	
	Altitude	11,500 ft above sea level	
COMMUNICATIONS INTERFACE	Standard communications	USB Interface including cable and software	RS-232 Interface including cable and software
	Web/SNMP card option	N/A	External Web/SNMP card providing UPS monitoring and receptacle On/Off control
	Environmental monitoring device	N/A	Measures temperature and humidity (requires Web/SNMP card option)
APPROVALS	UL-1778, cTUVus, FCC, and RoHS		
WARRANTY	5 years electronics, 5 years battery warranty (USA & Canada)**		
AVAILABLE OPTIONS	Web/SNMP adaptor (600VA), Environmental monitoring sensor (600VA), power cord with offset/right angle 5-15P plug		
INCLUDED IN BOX	ViewPower CD, 5–15P to C13 line cord		

\*Wall mount brackets add 15mm to each side \*\*Warranty outside of USA & Canada is three years.

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## 9. Obtaining Service

If the UPS requires service:

1. Use the TROUBLESHOOTING section in this manual to eliminate obvious causes.
2. Verify there are no circuit breakers tripped.
3. Call your dealer for assistance. If you cannot reach the dealer or if they cannot resolve the problem, call Lowell Manufacturing Company at (800) 325-9660. Technical support inquiries can also be made by email to [sales@lowellmfg.com](mailto:sales@lowellmfg.com). Please have the following information available BEFORE calling:
  - Your name and address.
  - The serial number of the unit.
  - Where and when the unit was purchased.
  - All of the model information about your UPS.
  - Any information on the failure, including LEDs that may or may not be illuminated.
  - A description of the protected equipment, including model numbers if possible.
  - A representative will ask you for the above information and, if possible, help solve the problem over the phone. In the event that the unit requires factory service, the representative will issue you a Return Material Authorization number (RMA).

If you are returning the UPS for service, please follow these procedures:

1. Pack the UPS in its original packaging. If the original packaging is no longer available, ask the Lowell representative about obtaining a replacement set of packaging material. It is important to pack the UPS properly in order to avoid damage in transit. Never use Styrofoam beads for a packing material.
2. Include a letter with your name, address, daytime phone number, RMA number, a copy of your original sales receipt, and a brief description of the problem.
3. Mark the RMA number on the outside of all packages. Lowell Manufacturing cannot accept any package without the RMA number marked on the outside of the boxes.
4. Return the UPS by insured, prepaid carrier to the address provided by the Lowell representative.

Refer to the Warranty statements in this manual for additional details on what is covered.

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## 10. Limited Warranty

Lowell Manufacturing Company warrants Lowell UPS equipment, when properly applied and operated within specified conditions, against faulty materials or workmanship for a period of **five years (USA & Canada) or three years (outside USA & Canada) for UPS6LI Series products** from the date of purchase. Lowell Manufacturing Company warrants **internal batteries for a period of five years** from the date of purchase. For equipment sites within the United States and Canada, this warranty covers repair or replacement, at the sole discretion of Lowell Manufacturing Company. The customer is responsible for the costs of shipping the defective product to Lowell Manufacturing Company. Lowell Manufacturing Company will pay for ground shipment of the repaired or replacement product. For equipment outside the US & Canada, the warranty does not include shipping to and from Lowell Manufacturing Company. This warranty applies only to the original purchaser.

If equipment provided by Lowell Manufacturing Company is found to be **Dead-on-Arrival (DOA)**, Lowell Manufacturing Company will be responsible for the costs of shipping product to and returning equipment from the customer in a timely manner as agreed to with the customer, once the customer has requested and received a **Return Material Authorization (RMA)** number. DOA equipment is defined as equipment that does not properly function according to user documentation when initially received and connected in conjunction with proper procedures as shown in the user documentation or via support provided by Lowell Manufacturing Company personnel or authorized agents.

This warranty shall be void if (a) the equipment is repaired or modified by anyone other than Lowell Manufacturing Company or a Lowell Manufacturing Company approved third party; (b) the equipment is damaged by the customer, is improperly used or stored, is subjected to an adverse operating environment, or is operated outside the limits of its electrical specifications; or (c) the equipment has been used or stored in a manner contrary to the equipment's operating manual, intended use or other written instructions. Any technical advice furnished by Lowell Manufacturing Company or a Lowell Manufacturing Company authorized representative before or after delivery with regard to the use or application of Lowell Manufacturing Company equipment is furnished on the basis that it represents Lowell Manufacturing Company's best judgment under the situation and circumstances, but it is used at the recipient's sole risk.

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