JUICE GOOSE™

SL-350

Slim Line UPS

General Description

The SL-350 is a battery backup device that features advanced lithium ion battery technology to achieve a light weight and thin profile design. Measuring only 6.9” x 8.5” x 1.25”, this UPS is well suited for installation in small spaces previously impractical for an ordinary UPS.

In the commercial audio video market, the SL-350 provides power continuity to support video projectors and digital signage components. This product is also is well suited for installation in kiosks, cabinets and small enclosures. In other markets, it has a convenient form for point of sale equipment.

This UPS has a power rating of 200 watts (350 VA). With a maximum electrical power load connected and with the UPS batteries fully charged, the unit will provide continuous electric power for approximately six minutes in the event of a utility power failure (blackout). The amount of time power is available increases as the connected load decreases. In addition to battery power, the SL-350 features 312 Joules of AC power surge protection.

The SL-350 is designed to be used with a detachable power cord. A three foot cord with a right angle plug is provided with the unit. Should a different length or style of cord be needed for a particular installation or application one can be purchased at-large and installed into this UPS. That cord should have a NEMA 5-15P plug as well as a female IEC style connector to attach to the UPS. The chassis is designed to make mounting to a wall or surface easy and reliable.

Status of the SL-350 UPS can be monitored using software loaded on a PC or laptop connected to the UPS via a USB cable. The software and cable are provided with this unit.

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Lithium Ion Battery Facts

The key to SL-350's small package is the choice of battery design. Unlike the lead-acid batteries built into other UPSs Juice Goose sells, the SL-350 uses a lithium iron phosphate (LiFePo4) battery.

Recent rapid growth in the use of lithium ion batteries began in 1991 when Sony commercialized that technology. Lithium-ion is a low maintenance, high energy density type of battery technology. Most of today's mobile phones run on a single LiFe cell. The most economical lithium-ion battery in terms of cost-to-energy ratio is the cylindrical 18650 (used in the SL-350 UPS). The name derives from its dimension,18mm x 65mm (0.7" x 2.5"). Picture a larger AA battery. This is a very adaptable and reliable battery design. It's a truly amazing fact that the Tesla "battery" is made from strings and bricks and layers of over 6,800 of these individual 18650 cells.

Like all technologies, lithium-ion has its drawbacks. It requires a protection circuit to limit the peak voltage during charge and to control voltage and current on discharge. In addition, the cell temperature should be monitored and managed to prevent temperature extremes. Storage and/or use in a cool or temperature controlled environment will increase the life of the battery. But, LiFe battery technology certainly provides a small, economical and powerful alternative to lead acid and other existing options.

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Detail Specifications

Capacity.....350VA, 200 Watts
Input
- Voltage.....120 VAC
- Frequency.....50 or 60 Hz

Output.
- Voltage.....120 VAC
- Waveform (Battery).....Simulated sine wave
- Frequency.....50 or 60 Hz. Same as input

Battery
- Type.....Lithium Iron Phosphate (LiFePo4)
- Style.....18650
- Quantity.....8
- Run time.....6 mins. full load, 14 mins, half load

Dimensions (inches).....6.9W x 8.5D x 1.25H
Weight.....3.4 lbs
Line Cord (provided).....3 foot, C13 (IEC) to 5-15P (NEMA) right angle
Receptacles.....3 x 5-15R
Environment
- Operating Temperature Limits.....32 to 104 degrees F
- Operating Humidity Limits.....0 to 90% RH
- Operating Altitude Limit.....11,500 feet over sea level

Power Control.....Push button on/off
Communications Port.....USB
Warranty.....3 years electronics and batteries (USA and Canada)
Certification.....UL-1778, cTUVus, FCC, and RoHS

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