



## Lithium Iron Phosphate (LiFePO<sub>4</sub>) Batteries PSL Series

### General Product Limited Warranty

Power-Sonic Corporation warrants the PSL series against defective workmanship and materials for the period specified below after battery was shipped from Power-Sonic, or for the full period plus six months from the date of manufacture based on date code of the battery, whichever is shorter.

#### **Warranty Period:**

From the date of shipment, three years full coverage\*. Capacity retention is guaranteed for the first three years of warranty coverage or when the sum of the discharge (Ah) for the PSL series battery equals 1600 times the rated capacity (Ah) of the battery, whichever occurs first.

#### **Conditions:**

- The warranty is invalid if the battery has been subject to misuse, abuse or physical damage.
- The battery will be determined to be defective if it fails to deliver less than 60% of its rated capacity during the warranty period, subject to the conditions listed below:

*The residual battery capacity is determined by:*

- 1) Fully discharging the battery to 0% SOC to 1C or less
- 2) Fully charging the battery at the recommended voltage and rate for a minimum of 24 consecutive hours
- 3) Fully discharging the battery to 0% SOC at 0.5C or less and 73°F (23°C)
- 4) The percentage of rated capacity is calculated as:

$$\text{Percentage of rated capacity (\%)} = [(IC/5) * \text{hours to discharge}] / C \text{ rated}] * 100$$

*Where:*

*C rated = Rated Capacity (Amp Hours)*

*IC/5 = C rated/5 (Amps)*

- The PSL battery selected by the user must be of the correct size, design, and capacity for the intended application. Failure to do this will invalidate the warranty.
- The battery should be installed and operated at a temperature not exceeding the batteries design limits as published in the specification sheet issued at that time.
- The batteries should be paired with a suitable designated charger for lithium iron phosphate batteries. Incorrect selection of charger and/or failure to follow the correct charging regimen will void the warranty.
- Battery annual maintenance records must be kept manually or electronically and made available as part of any warranty claim. The failure to keep such records will nullify the warranty.
- User agrees to make accessible the batteries under warranty to Power-Sonic or its' authorized representative for inspection at reasonable hours and time intervals.
- The warranty shall be voided if the battery becomes unserviceable due to: fire, freezing, abuse, neglect, repair, alteration or modification or any act of God.



- Installation of the batteries must be performed by suitably qualified technicians and in accordance with proven acceptable practices or the warranty will be voided.
- This warranty shall apply only to original purchasers in the United States or Canada.
- Warranties may be extended to other countries on a case by case basis. Please contact Power-Sonic to gain authorization for this.

***Claims:***

- Contact the original point of purchase for instructions.
- Request return authorization. No returns will be credited without an authorization.
- In the case of returned product the batteries must be packed with sufficient padding and in the appropriate cartons to eliminate the risk of damage in transit.
- A copy of the performance log record should be provided with the battery.
- The battery must only be returned in compliance with the transport and packaging regulations ruling at that time. Failure to do this may result in the carrier refusing the shipment.
- Incorrectly identifying the content of such packages is illegal and the shipment could possibly be subject to substantial fines and confiscation of the goods in accordance with Federal and State laws.
- Power-Sonic has the option to credit or replace products deemed defective and under warranty.
- Cost of travel, installation, transportation shall be borne by the purchaser.

The above warranty is in lieu of and not limited to all other remedies including negligence and breach.

\* Actual warranty period a function of cyclic use.