

# Zeal Lithium Iron Phosphate (LiFePO4)

## General Product Limited Warranty

Sealed Performance Batteries (SPB) warrants the Zeal Lithium range against defective workmanship and materials for the period specified below after battery was shipped from SPB, or for the full period from the date of shipment.

### Warranty Period:

Five years from the date of shipment.

### Conditions:

- The battery must be installed into an approved application at all times.

Some examples where the 5-year warranty would not apply may include (but not limited to) the following;

- Installation in an under-bonnet application
  - Installation in a starting application
  - The battery was charged with a device that did not use a lithium profile setting
  - Utilised with a mismatched inverter – for example: Using 2000W inverter with a battery with a maximum discharge of 1200W (100A)
  - Installed in an area subject to regular high temperatures
- The warranty is invalid if the battery has been subject to misuse, abuse or physical damage.
  - The warranty is invalid if the battery is not used in accordance with the instruction and warning card provided.
  - The batteries are subject to IEEE Standard 1188 Acceptance Test at time of installation. If they do not meet both, or either, the standards and the published Zeal Lithium specifications the company, SPB, must be notified immediately and the user should request further instructions.
  - The battery will be determined to be defective if it fails to deliver less than 70% of its rated capacity during the warranty period, subject to the conditions listed below:
  - The warranty is invalid if the battery has been over-discharged below 10 volts and not recharged within 1 week.
  - Once installed in an application the battery must be regularly charged with a lithium profile charger.
  - *The residual battery capacity is determined by:*
  - *Fully discharging the battery to 0% SOC at 1C or less*
  - *Fully charging the battery at the recommended voltage and rate for a minimum of 24 consecutive hours*
  - *Fully discharging the battery to 0% SOC at 0.5C or less and 73°F (23°C)*
  - *The percentage of rated capacity is calculated as:*

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

*Where:*

*C rated = Rated Capacity (Amp Hours)*

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

- The Zeal Lithium 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 at that time,
- The battery is not approved for installation in under bonnet applications.
- The batteries should be paired with a suitable designated charger with the correct settings (LiFePO4 profile) and Voltage / Current limitations as indicated in the specification sheet. Incorrect selection of charger and/or failure to follow the correct charging regimen will void the warranty.
- The batteries must not be used in starting applications.
- Information to be provided along with the warranty claim where possible should include

1. Battery type/Quantity
2. The date code/Installation date
3. Approximate operating temperature
4. Battery connection configuration – number in series / parallel
5. Charger Settings (Charging voltage and current settings)
6. Approximate load.

- User agrees to make accessible the batteries under warranty to SPB 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.

Approval must be sought before placing the battery in a commercial or industrial application or the warranty will be invalid.

This warranty specifically applies to the Zeal lithium (LiFePO4) batteries only and not other batteries in the Zeal range.

This warranty shall apply only to original purchasers in Australia or NZ. Warranties may be extended to other countries on a case-by-case basis. Please contact SPB to gain authorization for this.

**Claims:**

- Contact Sealed Performance Batteries in the first instance at sales@spb.net.au
- 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.
- 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.
- SPB 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 of contract.

The Competition and Consumer Act 2010 and the Australian Consumer Law may guarantee certain conditions, warranties and undertakings in relation to Goods. To the extent they apply, these guarantees cannot be modified nor excluded by contract, and this warranty document does not purport to modify or exclude any conditions, warranties, guarantees and undertakings under the Australian Consumer Law.