

## SCLFP Lithium-ion Battery Limited Warranty

### 1. Limited Warranty Coverage

This limited warranty (hereinafter “Warranty”) specified below applies to The Seller lithium iron phosphate batteries as distributed and sold by Power Storage Solutions. (hereinafter “Seller”) to Authorized Reseller, Installer or Distributor (hereinafter “Buyer”).

The Performance Warranty for the Products including accessory is Warranted (the “Limited Warranty”) by Seller, against manufacturing defects in materials and workmanship for a period of five (5) years full replacement (the “Limited Warranty Period”) or 4000 cycles at 80%DOD, whichever comes first.

### 2. Performance Warranty (Standard)

(1) The battery system is operated under normal use followed by specification and manual provided by Seller.

(a) The ambient temperature during the operation of the Products shall not fall below 0°C or exceed 50°C, and altitude not exceeding 3000 meters (9,842 feet).

(b) Recommended charging and discharging parameters

Table 1-Recommended parameters

Battery Module	SCLFP48100 – 3U
High Battery Cut Off Voltage	54.0V
Low Battery Cut Off Voltage	47.5V
Max Charge Current	50A
Max Discharge Current	50A

(2) Recommended operating parameters of battery for 4,000 Cycles:

Operating temperature range: 32F to 122F (0°C to 50°C).

Recommended operating parameters of battery for 6,000 Cycles:

Operating temperature range: 50F to 104F (10°C to 40°C).

At the end of cycle life capacity is equivalent to 80% retained capacity.

### 3. Limitation of Warranty Scope

This Limited Warranty applies only to SCLFP Product:

(a) Installed in covered locations including (US/Canada),

- (b) Purchased from Seller or an authorized reseller,
- (c) Installed by a licensed professional or authorized installer,
- (d) The warranty date is calculated from the supply date from Seller,
- (e) Within the limited warranty period,
- (f) Does not cover the cost of installation, removal, shipping or reinstallation,
- (g) Does not cover faults in design or installer error such as reverse polarity or misuse of system wide equipment or inaccurate programming of all ancillary equipment in your system. Failure to comply with the installation and operating parameters in the Installation Manual will void the Warranty.

#### **4. Warranty Obligations**

- (1) The liability of Seller under this Limited Warranty shall be limited to the repair or replacement of the Seller's Product, at Seller's sole discretion. If the Seller's Product is found to be defective as a result of any manufacturing defect in materials and workmanship during the Limited Warranty Period, Seller will, at its sole discretion either
  - (i) repair the Seller's Product or
  - (ii) replace the Seller's Product or
  - (iii) Replace the Product with a similar Seller's Product.
- (2) If a Seller's Product is replaced, the returned Seller's Product will become the property of Seller and must be sent to Seller free of any third-party ownership claims.
- (3) The Warranty period of any repaired Seller's Product or its replacement is twelve (12) months from the date of shipment from Seller, or the remaining term of the Limited Warranty Period, whichever is greater. In any event, the replacement shall not justify the renewal of the Term of Performance Warranty.
- (4) In the event Seller determines that an alleged product or services defect did not exist or, if existed, was excluded from Seller's liability by Seller's Terms & Conditions, Customer shall reimburse Seller for all costs and expenses incurred by Seller as a result of Seller's attempt to repair, replace or re-perform.

#### **5. Exclusion of Warranty**

- (1) Limited Warranty does not cover faults due to:
  - (a) Improper battery bank sizing,
  - (b) Improper battery wiring and/or installation,
  - (c) Incorrect inverter and/or charge controller settings,
  - (d) Seller's products paired with incompatible equipment,
  - (e) Other indications of damage due to improper system operation and/or installation.

(2) This Limited Warranty does not cover damages that occur due to:

- (a) Transport damage,
- (b) Installation or commissioning by any person who is not an authorized, certified dealer or authorized, certified installer,
- (c) Negligent, reckless, or willful conduct on the part of an owner, authorized certified dealers or installers, or any other third party,
- (d) Failure to observe the user manual, maintenance regulations and intervals,
- (e) Modifications, changes, or attempted repairs, except as conducted by an authorized certified dealer or installer,
- (f) Incorrect use or inappropriate operation, storage, commissioning, or modification of the covered products,
- (g) Insufficient ventilation of the covered product,
- (h) Failure to observe the applicable safety regulations,
- (i) Any product whose serial number has been altered, defaced, or removed,
- (j) Continually used and maintained in temperatures below 0°C or above 32°C,
- (k) The product continually exposed to a temperature exceeding 50 °C,
- (l) Altitude installed above 3000 meters (9,942 feet),
- (m) Operation in a non-intended use, or a use which exceeds the recommended or permitted limits or loads of the Seller's Product,
- (n) Use of an incompatible inverter, charge controller, rectifier or pcs;
- (o) Lightning, flood, earthquake, fire, extreme cold weather, or other events outside the reasonable control of Seller,
- (p) Force majeure, including but not limited to the events listed above,
- (q) Acts of god or theft.

(3) This Limited Warranty does not cover cosmetic defects that do not directly influence energy production, or degrade form, fit, and function, nor does it cover noise or vibration that is not excessive or uncharacteristic and does not impact the performance of the Covered Products.

(4) Seller is not responsible for inspection to product by a third party other than Seller or Seller's agent approved by Seller.

(5) In no event will Seller be held responsible or liable for any personal injuries arising out of or connected with the use or misuse of the Covered Product, or for any other damages, whether direct, indirect, punitive, incidental, or consequential, even if Seller has been advised of such damages.

## **6. Warranty Claims**

(1) To request Warranty service, your Installer/Distributor/Supplier must contact Seller Technical Support in writing within the Limited Warranty Period. Seller reserves rights

to investigate battery operation conditions and make a reasonable judgement. Either Seller or its authorized representative will attempt to troubleshoot the Seller's Product at the Original Use Location to determine whether the Seller's Product is defective. If Seller determines that Warranty service is required, Technical Support will assist in getting authorization for a Return Material Authorization ("RMA") number and instruct you how to submit the RMA.

(2) Claims under this Warranty must be made by notifying the Authorized Reseller, distributor or installer from whom the Product was purchased. For a Warranty Claim to be processed, it must include following items:

- (a) Proof of the original purchase invoice for the original Seller's Product,
- (b) Description of the alleged defect from authorized service center,
- (c) The relevant Product's module number, serial number and the initial installation date.

## **7. Important Notices**

(1) Circuit Breakers, Disconnects and Fuses should be employed throughout several points of a Power storage and generation installation to effectively isolate and protect all components of the system to safeguard against faults, short circuits, polarity reversals or a failure of any component in the overall system. Fuses, breakers, wire ratings and values should be determined by established standards and evaluated by certified electricians, licensed installers, and regional code authorities. Although each Seller Lithium Battery contains an internal BMS with circuitry that protects the Lithium Ferrite Phosphate cells from overcharge, over-discharge and excessive load amperage, the Seller Lithium Batteries must always be installed with a charge controller and the appropriate settings to protect the Seller's Product from open PV voltage and other high voltage charging sources. The Seller's Lithium Battery Management System (BMS) alone will not protect the Seller Lithium batteries from these extreme electrical phenomena. Failure to adhere to installation protocol will void the Warranty.

(2) Seller's products are designed to meet stated U.S. safety standards and regulations. Because local safety standards and regulations vary significantly, Seller cannot guarantee that products meet all applicable requirements in each locality. Buyer assumes responsibility for compliance with such safety standards and regulations in the localities in which a product will be shipped, sold or used. Before purchase and use of any product, Buyer shall review the product application, and national and local codes and regulations, and must verify that the use and installation of the product will be in compliance therewith.

(3) Only use a Seller approved LFP charger if ancillary charging is required before



installation, testing, or troubleshooting. Failure to use a Seller approved LFP charger will damage the battery and void the warranty.

(4) Improper sizing and/or charge parameters can cause the battery to malfunction. It is necessary to both correctly size a system and enter the correct charge parameters into your charge controller and/or inverter. Please see Product Instructions for these topics. Failure to check these may result in a dysfunctional system.

(5) If there is any inconsistency between this Limited Warranty and any other agreement or statement included with or relating to Seller Product or services, this Limited Warranty shall govern. If any provision of this Limited Warranty is found invalid or unenforceable, it shall be deemed modified to the minimum extent necessary to make it enforceable and the remainder of this Limited Warranty shall remain valid and enforceable according with its terms.

To obtain technical support or Warranty service, please contact us as follows:

Address: 10490 Markison Road, Dallas, TX 75238  
Phone: 888-813-5049  
Email: [info@pwrss1.com](mailto:info@pwrss1.com)

**Power Storage Solutions**  
**06/01/2020**