

The BSLBATT Lithium iron phosphate batteries PowerLine & PowerCube as supplied and distributed by BSL NEW ENERGY TECHNOLOGY CO., LTD., ("BSLBATT Lithium") a China corporation, are warranted (the "Limited Warranty") by BSLBATT Lithium against manufacturing defects in materials and workmanship. ("BSLBATT Lithium") provides the warranties in this document ("Limited Warranty") to the person who purchases the Product for their use and puts the Product into operation for the first time ("Original Buyer"). To be eligible, all BSLBATT Products must be installed by a licensed professional using the BSLBATT Lithium Installation Manual and the BSLBATT Lithium Integration Guide.

**{PRODUCT SCOPE:** This agreement applies to wall-mounted battery PowerLine and rack-module PowerCube lithium iron phosphate systems manufactured and delivered by BSL NEW ENERGY TECHNOLOGY CO. When the buyer purchases both PowerLine or PowerCube either model + inverter from BSLBATT, we extend the warranty on the battery to 10 years.}

## 1 – LIMITED WARRANTY COVERAGE

### 1.1. Warranty Start Date

Generally, the Warranty Start Date is the first day after six (6) months from the Production Date of the Product (Refer to the Appendix of this Limited Warranty to find out the Production Date). But if the Original Buyer can provide the written documents (such as receiving note) to prove the time when the Product is delivered to the installation site where the Product is installed and operated for the first time ( " Delivery Date " ), the Original Buyer can choose the first day after thirty (30) days from the above Delivery Date as Warranty Start Date.

### 1.2. Limited Product Warranty

BSLBATT Lithium or workmanship for ten (10) years from the Warranty Start Date, subject to the exclusions and limitations set out below:

### 1.3. Limited Performance Warranty

a) BSLBATT Lithium offers a 10-year warranty on its products; or for 10,000 cycles, 60% DOD; or for 8,000 cycles, 80% DOD; or for 6000 cycles, 90% DOD; whichever comes first. The details are listed in the table below:

Model	Number of cycles	Cell Warranty period	BMS Warranty period	Note
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PowerLine-5/10	@90% DOD, @25±2°C, standard charge/discharge mode conditions, cycle times ≥6000.	10 years	3 years	Expired BMS replaced by BSLBATT Lithium for a fee
PowerCube-5				

b) BSLBATT Lithium warrants that the Product will (i) retain seventy percent (70%) of its Usable Energy for Ten (10) years from the Warranty Start Date, or (ii) reach the Minimum Throughput Energy, whichever comes first, on the condition that the Product is operated in a normal manner that adheres to the manual guidelines provided by BSLBATT.

c) The Minimum Throughput Energy means the total output energy of the Product recorded in the control module of the Product.

d) The Usable Energy and Minimum Throughput Energy for each Product Model are set out in the table below:

Model	60%DOD	80% DOD	90%DOD
PowerLine-5	30.7MWh	32.7MWh	27.648MWh
PowerCube-5			
PowerLine-10	61.4MWh	32.7MWh	55.2MWh

#### 1.4. Limited Performance Warranty for additional battery modules

If the Original Buyer purchases additional battery modules after the initial installation of the Product (“Subsequent Product”), the warranty in clause 1.3 applies to the Subsequent Product from the sale date recorded in the seller's invoice to the Original Buyer of that Subsequent Product.

#### 1.5. Warranty Limitations

The Limited Warranties in clauses 1.2 and 1.3 are subject to and must be read together with the limitations, exclusions, and limitations set out below.

#### 1.6. Warranty Coverage

- a. This Limited Warranty applies only to the original end-user purchaser of the BSLBATT Lithium Product and is transferable only if the BSLBATT Lithium Product remains installed in the Original Use Location.
- b. BSLBATT Lithium does not warrant, or guarantee workmanship performed by any

person or firm installing the BSLBATT Lithium Product.

- c. This Limited Warranty does not cover the cost of installation, removal, shipping, or reinstallation. Products may not be opened, modified, processed or maintained privately without authorization.
- d. This Limited Warranty does not cover faults in design or installer error such as but is not limited to, reverse polarity or misuse of system-wide equipment, or inaccurate programming of all ancillary equipment in your system.
- e. This Limited Warranty applies only to a BSLBATT Lithium Product purchased from BSLBATT Lithium or an authorized BSLBATT distributor, dealer, or reseller, and properly installed by a licensed professional.
- f. If it is necessary to use the battery for equipment other than those specified in the document or to use the battery under conditions of use other than those specified in the document, BSLBATT Lithium should be contacted in advance and specific experimental tests are required to verify the performance and safety of the battery under such conditions of use.
- g. BSLBATT Lithium shall not be responsible for any accidents resulting from the use of the Battery under conditions other than those specified in the Documentation.
- h. During the warranty period, BSLBATT will implement paid repair services (the buyer bears all costs such as material and labor costs) in the following cases: (1) damage caused by human beings; (2) failure or damage caused by improper operation; (3) failure or damage caused by modification, disassembly or assembly of the product.
- i. The liability of BSLBATT Lithium under this Limited Warranty shall be limited to the repair or replacement of the BSLBATT Lithium Product, at BSLBATT Lithium's sole discretion. BSLBATT Lithium will not be responsible for any other types of losses or costs of any type pertaining to the use of its products. If the BSLBATT Lithium Product is found to be defective as a result of any manufacturing defect in materials and workmanship during the Limited Warranty Period, BSLBATT Lithium will, at its sole discretion either
  - (i) Remote repair of the product by BSLBATT with necessary parts and remote technical support.,
  - (ii) If the product cannot be repaired, BSLBATT will replace the product for free if it is not used.
  - (iii) Replace the Product with a similar BSLBATT Lithium Product

- (iv) Or will credit the remaining depreciated value of the Product to be applied to the purchase of a new BSLBATT Lithium Product. The purchase price mentioned above refers to the bid price actually paid by the buyer for the purchase.

**~ Remaining Depreciable Value Compensation Scheme ~**

<b>10-YEAR WARRANTY</b>	
0-36 months	100% of product purchase price
37-48 months	80% of product purchase price
49-96 months	60% of product purchase price
97-120 months	40% of product purchase price
<i><b>“The following warranties are in effect at the time of purchase of the BSLBATT inverter”</b></i>	
121-144 months	2%-3% of product purchase price
> 144 months	Out of warranty

- j. If a BSLBATT Lithium Product is replaced, the defective BSLBATT Lithium Product will become the property of BSLBATT Lithium and must be returned to BSLBATT Lithium free of any third-party ownership claims. The Warranty period of any repaired BSLBATT Lithium Product or its replacement is twelve (12) months from the date of shipment from BSLBATT Lithium, or the remaining term of the Limited Warranty Period, whichever is greater.

## **2 – EXCLUSIONS AND LIMITATIONS**

### **2.1. Disclaimer**

**1)** To the extent permitted by law, the warranties in this Limited Warranty are the only express warranty given for the Product. BSLBATT Lithium disclaims all statutory and implied warranties, including without limitation, any warranties of merchantability, fitness for a particular purpose, or non-infringement. To the extent permitted by law, as such warranties cannot be disclaimed, BSLBATT Lithium limits the duration and remedies of such warranties to the duration of this Limited Warranty and, at BSLBATT's option, the repair or replacement services described below.

2) Neither seller of the Product nor any other person is authorized to make any warranties on behalf of BSLBATT Lithium other than those contained in this document or to extend the duration of the warranties beyond the periods specified above.

## **2.2. Limitation of Liability**

Except as provided in this warranty and to the maximum extent permitted by law, in no event will BSLBATT Lithium be liable for any consequential, incidental, special, or punitive damages (including without limitation of loss of profits, harm to goodwill or business reputation, or delay damages) arising from or out of the Product or its installation, use, performance or non-performance, or any defect or breach of warranty, whether based on contract, warranty, negligence, strict liability, or any other theory. BSLBATT's aggregate liabilities if any, in damages or otherwise, shall not exceed the purchase price paid by the Original buyer for the Product.

## **2.3. Product transportation precautions**

- 1) It should be taken lightly and placed gently to avoid violent vibration of the equipment.
- 2) Prohibit inverting, tumbling, dropping or hitting the battery to avoid damaging the appearance of the battery.
- 3) The battery should avoid exposure to the sun and rain, and it is forbidden to submerge the whole battery directly into water.
- 4) Prohibit short-circuiting of positive and negative poles.

## **2.4. Product storage precautions**

- 1) The external terminals of the battery pack are in the state of insulation protection.
- 2) Battery pack with a storage period of more than 6 months should be recharged accordingly, turn on the battery switch, the indicator light is lit, when the power is 30%-50%, charge with 0.2C for 1 hour; when the power is 30% or less, charge with 0.2C for 3 hours.
- 3) Do not store or place the battery for a long time at a temperature over 60 °C, otherwise it will cause the function to decline and shorten the life

## **2.5. Product installation precautions**

- 1) Unpacking, testing the number of accessories and the appearance of the battery before installation.
- 2) Read the battery voltage on the display, the general battery factory voltage between

50.4V-53.5V (power 30%-70%).

- 3) check the positive and negative battery terminals before wiring, and strictly prohibit reversing the positive and negative terminals when installing the battery.
- 4) Please wear protective gloves during battery connection, and when using metal tools such as torque wrenches, please pack the metal tools with insulation to absolutely avoid the ends of torque wrenches and other metal tools from touching the positive and negative terminals of the battery at the same time, causing a short circuit.
- 5) Before connecting to external devices, disconnect the device and check again if the battery connection polarity and total voltage are correct. Then connect the positive terminal of the battery to the positive terminal of the equipment, and the negative terminal of the battery to the negative terminal of the equipment, and fasten the connecting wires.
- 6) The battery must be handled and placed gently, forbidden to fall, impact, throw or knock the battery, in order to avoid damaging the battery or causing safety hazards.
- 7) Prohibit the use of sharp parts of tools to contact the surface of the battery box, scratch or damage the battery box.
- 8) Prohibit private disassembly of the battery box.
- 9) Prohibit to put any metal or conductive material objects together with the battery or assemble them into the battery box together.
- 10) Ensure that the wall meets the wall mounting requirements before installation.
- 11) It is forbidden to install the product on mobile devices or equipment (cars, boats, etc.) for use.

## **2.6. Product maintenance precautions**

- a. The maintenance period is 6 months, and the maintenance matters are as follows.
- b. Check whether the battery positive and negative poles, connecting wires are loose, damaged, deformed or corroded, and whether the battery shell is damaged or deformed.
- c. If there is a fault and the display issues a warning, please check whether the battery connection is correct or whether there is an overcurrent situation; after that, press the

reset button and see if the fault is eliminated after the battery restarts, if it cannot be eliminated, please contact the manufacturer for treatment, do not open the battery pack case without permission.

- d. For the application scenario of multiple batteries in parallel, if one of the batteries fails and needs to be replaced, make sure the voltage difference between the new battery pack and the other battery packs to be connected in parallel is within 2V, if the voltage difference is large, it will happen that the battery pack with high voltage will charge the battery pack with low voltage with high current, and the battery pack with low voltage will be protected from charging overcurrent, resulting in failure to charge.
- e. Record the time and number of power outages, and make detailed statistics on the battery power supply time

## 2.7. Warranty Limitation

This Limited Warranty does not apply to the BSLBATT Lithium PowerLine / PowerCube batteries or any BSLBATT Lithium Products under the following conditions: (i), if the BSLBATT Lithium Product has exceeded the Limited Warranty Period or exceeded the number of cycles covered or (ii) the Limited Warranty in clauses 1.2 and 1.3, does not apply to any defect or deterioration resulting from:

- 1) The Product not being installed, maintained, or operated by the Operating Manual;
- 2) Exposure of the Product to movement or shaking following installation, or the product is used in an environment below 0°C or above 65°C;
- 3) Original Buyer failing to notify BSLBATT Lithium or a BSLBATT Authorized Service Partner (“BSLBATT Partner”) of the defect or deterioration within 30 days of the Original Buyer becoming aware of the defect or deterioration;
- 4) The Product not being installed within one (1) month from the Warranty Start Date;
- 5) Operation of the Product with an inverter that is not a BSLBATT certified inverter which is specified in the BSLBATT Lithium product Compatible Inverter List, which is available on the websites:  
<https://www.bsl-battery.com/>  
<https://www.bsl-battery.com/inverter-compatibility-list.html>;
- 6) Modification or repair of the Product without the approval of BSLBATT Lithium or BSLBATT Partner;
- 7) A force majeure event (e.g., natural catastrophes, such as flooding, fires, earthquakes, lightning or other abnormal environmental conditions, war, etc.);
- 8) Noticeable damage to the Product that occurred during transportation;
- 9) Changes to national or regional laws, regulations, or directives;
- 10) The Product has not been operated for any period of 6 months or more.
- 11) Incidental or Consequential Damage Caused by Other Components of the Power

System Including but not limited to Inverters, Charge Controllers, Breakers, Bypass Switches, Fuses, etc.

- 12) Operation in a Non-Intended Use or a Use Which Exceeds the Recommended or Permitted Limits or Loads of the BSLBATT Lithium Product.
- 13) Installation or Removal, Alteration or Disassembly
- 14) Normal Wear and Tear
- 15) Accident or Abuse (Being Dropped, etc.)
- 16) Corrosion - Inappropriate Environmental Exposure
- 17) Repair or Service Provided by an Unauthorized Repair Facility
- 18) Excessive Heat or Cold Conditions
- 19) Battery self-discharge is an objective factor causing capacity decay, and the monthly self-discharge standard is  $\leq 2.5\%$ /month.
- 20) If the battery is intended for long-term storage, the battery must be inspected and maintained every 3 months, and the warranty will be cancelled if it is not charged and maintained every 6 months.

### **3. DECLARATION OF VALIDITY OF WARRANTY LIMITATIONS**

This limited warranty is the exclusive warranty applicable to the PowerLine & PowerCube product. BSLBATT Lithium expressly disclaims any other express or implied warranties of the PowerLine & PowerCube product, including but not limited to any implied warranties of merchantability or fitness for a particular purpose. No warranties whether expressed or implied, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose shall apply after the limited warranty period.

BSLBATT Lithium also expressly limits its liability in the event of a product defect to repair or replacement in accordance with the terms of this limited warranty, and excludes all liability for incidental or consequential damages, including without limitation any liability for the BSLBATT Lithium product not being available for use or lost revenues or profits, even if BSLBATT Lithium has been advised of the potential for such damages. Some states (or jurisdictions) may not allow the exclusion or limitation of certain warranties or damages, so some of the above exclusions may not apply to you.

If there is any inconsistency between this Limited Warranty and any other agreement or statement included with or relating to the BSLBATT Lithium 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 to its terms.



## 4. OUT OF WARRANTY

In the event the Product is out of warranty, BSLBATT Lithium may (at its discretion) provide certain after-sales services to the Original Buyer, but all the costs and expenses, such as parts, labor costs, and travel expenses, shall be borne by the Original Buyer. To request such after-sales service Original Buyer must provide sufficient information about any defects to enable BSLBATT Lithium Partner to determine whether such defects are capable of repair.

## 5. REGISTRATION FOR LIMITED WARRANTY

To activate this Limited Warranty, the Limited Warranty Registration Form Appendix C must be completed and forwarded to BSLBATT Lithium pursuant to the instructions set forth in the Limited Warranty Registration Form. The Limited Warranty registration form must be authorized and affirmed by BSLBATT to be effective. BSLBATT will send confirmation of affirmation within 5 days of receipt of the Limited Warranty Registration form. This Limited Warranty applies only to the BSLBATT Lithium Product that is (i) registered on the Limited Warranty Registration Form attached to this Limited Warranty and (ii) installed in the Original Use location which shall be described by inserting the address of the Original Use Location in the space "Address of Installation" provided in the Limited Warranty Registration Form and name of installer/ distributor or supplier.



### APPENDIX C – Limited Warranty Registration Form

Customer	
Name	
Installation address (one address per form)	
Phone	
Email:	
By certified installers or licensed electricians	

Contact name:			
Company name:			
Address:			
Phone:			
Email:			
<b>Product Installation Information</b>			
Product name/ model:			
Product quantity:			
Product purchase date:			
Where was the product purchased?			
Date of installation:			
Date of commissioning:			
Application scenario:			
Installation location:			
<b>Power source (check all that apply and specify).</b>			
PV Solar Arrays		Solar PV Array Size (Watts):	
Generator		Wind Turbine Size (Watts)	
Utility		Generator Size (Watts):	
Wind		*AGS Included (Y/N):	
<b>Inverter Information</b>			

Inverter configuration:	
Inverter serial number:	
Make and model of charge controller:	
Operating mode:	
<b>Warranty / Return Instructions</b>	
Product error message:	
Additional description:	
Registration form completed by:	
Date:	

## 6. APPENDIX A – Important Notices

**IMPORTANT NOTICES:** Circuit Breakers, Disconnects, and Fuses should be employed throughout several points of Power storage and generation installation to effectively isolate and protect all components of the system to safeguard against faults, short circuits, and 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 BSLBATT Lithium Battery contains an internal BMS with circuitry that protects the Lithium Ferrite Phosphate cells from overcharge, over-discharge and excessive load amperage, the BSLBATT Lithium Batteries must always be installed with a charge controller and the appropriate settings to protect the BSLBATT from open PV voltage and other high voltage charging sources. The BSLBATT Lithium Battery Management System (BMS) alone will not protect the BSLBATT Lithium batteries from these extreme electrical phenomena. Failure to adhere to installation protocol will void the Warranty.

**CAUTION:** All BSLBATT batteries can only be commissioned when the batteries are at least 20% charged. Failure to do so will void the warranty.

**CAUTION:** Only use a BSLBATT - approved LFP charger if ancillary charging is required before installation, testing, or troubleshooting. Failure to use a BSLBATT - approved LFP charger will damage the battery and void the warranty.

**CAUTION:** The temperature range at which BSLBATT Lithium products can be charged is 0°C - 45°C. Charging BSLBATT Lithium products outside of this temperature range may cause battery breakage and can affect battery performance and reduce battery life expectancy. Failure to comply will void the warranty.

**CAUTION:** Charging LFP batteries at temperatures below freezing. Do not attempt to charge the battery below 32F (0 degrees C). Attempts to charge at subfreezing temperatures can adversely affect SOH and cycle life and will void the Warranty. If the battery must be charged below 32F (0 degrees C), the rate of charge must be at no more than 5% of the battery's rated capacity (C/20). Failure to comply will void the warranty.

**CAUTION:** BSLBATT Lithium batteries can be discharged at temperatures from -20°C to 60°C. Use of the battery outside of these temperatures may damage the performance of the battery or reduce its expected life. Failure to comply will void the warranty.

## **7. Product Risk Warning**

### **WARNING**

Batteries are potentially dangerous and must be operated and maintained with proper precautions! Improper misuse of test experiments may result in Serious personal injury and property damage! Batteries must be handled with proper tools and protective equipment. Battery maintenance must be performed by a person with battery Failure to follow these warnings can result in multiple disasters