

YILINK NEW ENERGY TECHNOLOGY

A4 ShunJing Industrial area Longcheng Street, Long Gang district 518100 Shenzhen, PR. China

| Tel:+ 86-755-28684503 | [www.YiLiNK-energy.com](http://www.YiLiNK-energy.com) | [info@YiLiNK-energy.com](mailto:info@YiLiNK-energy.com)

# Lithium Battery Limited Warranty Letter

## 1. PURPOSE

The primary purpose of this Limited Warranty (Hereafter referred to as “Warranty” letter), is to guarantee the products quality in relation to clearly defined matters related to the warranty policy of the Products.

## 2. APPLICABLE PRODUCT TYPE

The Warranty Terms apply to YiLiNK LifePO4 Solar Battery systems, (hereafter Referred to as “Battery”), as specified below:

- iPower Power Wall mounted Solar Battery
  - 48V100Ah 4.8KWH
  - 51.2V100Ah 5.12KWH
  - 48V150Ah 7.2KWH
  - 51.2V150Ah 7.68KWH
  - 48V200Ah 9.6KWH
  - 51.2V200Ah 10.24KWH



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- iPower Rack Mounted Solar Battery
  - 48V50Ah 2.4KWH
  - 48V100Ah 4.8KWH
  - 48V200Ah 9.6KWH
  - 51.2V100Ah 5.12KWH
  - 51.2V200Ah 10.24KWH

Supplied by **YiLiNK New Energy Co., Ltd.** (hereinafter referred to as “YiLiNK” or “Seller”)

to **NuVision Electronics (Pty) Ltd.**

### 3. WARRANTY CONDITION

#### 3.1 Limitation of Warranty scope

YiLiNK’s liability under this Warranty shall be limited to replacement and/or repair, at YiLiNK’s sole discretion. The replaced or repaired Battery shall remain under warranty for the remainder of the original terms of the performance Warranty. In any event, the replacement shall not justify the renewal of the Term of Warranty

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The Warranty in respect of the Battery shall only apply if the Battery:

- 1) is purchased from YiLiNK or an authorized Reseller;
- 2) is installed by a qualified installer in accordance with the Battery Manuals, Guides, Specification Sheets and APPENDIX 1 of this Warranty Letter;
- 3) is installed in accordance with electrical codes and requirements within your jurisdiction;
- 4) is operated and maintained in accordance with the Battery Manuals, Guides, Specification Sheets and APPENDIX 1 of this Warranty Letter;
- 5) be used on a daily cycle basis and only for energy storage system purposes;
- 6) has the official YiLiNK serial number.

The warranty shall be deemed void if the defect or failure of the Battery's

performance is attributable to the user's misuse, abuse, accident or non-observance of the Product specifications, Battery Manuals, Guides, Specification Sheets and APPENDIX 1 of this warranty letter.

### 3.2 Warranty period

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The Warranty for the Battery is valid for 10 years (120 months) from date of initial installation, without exceeding 122 months from the date of manufacturing. For the first 5 years (60 months) of the 10 year warranty, transportation costs shall be free of charge and covered by YiLink. Thereafter, for the subsequent or remaining 5 years (60 months) of the 10 years warranty, the appropriate transportation costs shall be covered by the Distributor or Reseller.

### 4. Performance Warranty

YiLiNK warrants that the Battery shall retain at least Seventy Percent 70% of it's Nominal Energy after 10 years (120 months), Or, that the battery delivers a minimum Energy Throughput as per the table below, whichever comes first.

The term "Nominal Energy" herein refers to the initially specified Nominal Energy of the products as printed on the label of Products.

ORIGINAL NOMINAL ENERGY	ENERGY RETENTION
2.4KWH	1.68KWH
4.8KWH	3.36KWH
5.12KWH	3.584KWH
7.2KWH	5.04KWH

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7.68KWH	5.476KWH
9.6KWH	6.72KWH
10.24KWH	7.168KWH

The preconditions of the valid 10 years warranty shall be as follows:

- The Operation, installation and maintain in accordance with APPENDIX 1 of this Warranty Letter;
- The Battery is connected with an approved Inverter or PCS under communication mode;
- The Energy Throughput is less that the values state in the below tables:

NOMINAL ENERGY	MINIMUM ENERGY THROUGHPUT
2.4KWH	5.6MWH
4.8KWH	13.1MWH
5.12KWH	14.0MWH
7.2KWH	19.7MWH
7.68KWH	21.0MWH
9.6KWH	28.0MWH
10.24KWH	29.9MWH

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Capacity measurement condition:

- Ambient temperature: 25~30 degree
- Initial battery temperature from BMS: 25~30 degree
- Charging/discharging method
  - Charge: (0.2) CC/CV (Constant voltage: (53.5) V/ Cut-off current (0.02) C)
  - Discharge: (0.2)CC (Cut-off voltage: (40)V)
  - Current at (0.2)C, Current and Voltage measurement at Battery DC site

## 5. Exclusion of Warranty

This Limited Warranty does not apply to the Battery if Battery have been modified or damaged due to or by the following:

- Fire, flood or acts of god
- Lightning
- Water damage

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- Improper shipping and transportation
- Improper installation or removal
- Installation, operation or maintenance of the product contrary to the Battery Manuals, Guides, Specification Sheets and APENDIX 1 of this warranty letter.
- Non qualified YiLink persons that privately open, disassemble, re-assemble, modify the Battery
- 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
- The Battery has been connected with different types and/or manufacturers of battery modules
- Normal wear and tear or deterioration, or superficial defects, dents or marks that impact the performance of the Battery
- Operation or use outside of the intended solar energy storage application and operation for this battery , or a use which exceeds the recommended or permitted limits
- Any Battery whose serial number has been altered, defaced or removed

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- Products failure is not reported to YiLiNK Authorized Service Partner within 2 weeks of potential fault appearance

## 6. Obtaining Warranty Service

To obtain Warranty service, the Buyer must contact YiLiNK's Technical Team in writing at [info@yilink-energy.com](mailto:info@yilink-energy.com) as soon as possible after the Battery potential defect appearance. Either YiLiNK or its authorized representative will attempt to troubleshoot the Battery to determine whether the Battery is defective. To be prepared for Technical Support assistance, the Buyer needs to provide in writing all the following information (at a minimum):

- Basic information:
  - Battery series number
  - Purchase invoice
  - Installation date and location
  - Photos of the Battery and the overall system installation
- Description of the problem:
  - Events / symptoms leading up to the problem with the Battery



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- Resolutions attempted
- Battery based Inverter, charge information:
  - Inverter brand
  - Inverter series and model
  - Numbers of Inverter (if applicable)
  - Charge controller model
- Battery system monitoring data (if applicable)

YiLiNK may contact the Buyer for further information regarding a potential defect.

If YiLiNK determines the claim to be within the Warranty scope, the defect battery will be repaired or replaced. Priority will be given to using spare parts for repair or replacement of the faulty battery If the local distributor or authorized Reseller has spare parts. In the event that a replacement Battery is no longer available in the market, YiLiNK may replace the Battery with a new product of similar or higher function and performance, although the replacement product may be a different size, appearance or capacity.

If You dispute YiLiNK's verification of the claim, the Battery can be evaluated by a certified testing lab approved by both parties under a reasonable test method approved by both parties. The buyer will bear the cost of any 3<sup>rd</sup> party lab valuation service charge unless the claim is proven to be valid, in which case YiLiNK will be responsible for the testing charge.



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## Appendix 1

For this Warranty to be valid, the battery shall be transported, installed, operated and maintained in accordance with the Battery Manuals, Guides, Specification Sheets and clauses as stated below. Failure to adhere to the Battery Manuals, Guides, Specification Sheets and clauses as stated below will render the warranty void.

- Transportation

The Battery shall be transported with the original packaging of the Seller, if the original packaging is damaged, the buyer shall pack the Battery with seaworthy packaging material.

The buyer shall fully consider the potential risk in transportation, such as vibration, drop and collision, and adopt adequate product protection measures.

- Operation

- 1) Operation Environment

- Ambient temperature of working: 0~45 degree

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- Working humidity: 5%~85% RH
- Attitude: <4000m
- The installation site must be far away from areas with high salt and high humidity
- The installation site must be far away from locations containing harmful gasses
- The installation site must be far away from locations containing conductive dust
- The installation site must be far away from locations containing flammable and explosive materials
- The installation site must be far away from locations containing corrosive materials

### 2) Storage

Before storing, make sure the Battery SOC is no less than 60%SOC. Insulate and store Battery in clean and dry place.

STORAGE TEMPERATURE	RECHARGE FREQUENCY	BATTERY CONDITION
20~30 Degree	Every 3 months	No less than 60%SOC In an insulated state

- The storage site must be far away from areas with high salt and high humidity
- The storage site must be far away from locations containing harmful gasses

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- The storage site must be far away from locations containing conductive dust
- The storage site must be far away from locations containing flammable and explosive materials
- The storage site must be far away from locations containing corrosive materials

### 3) In Using

- Long term continuous discharge should be  $\leq 0.5(C)$ .

The Battery Warranty remains valid if users discharge the battery within the specified 0.5C limits for 80% of the operation time, for 20% of the operation time users can exceed the 0.5C limit. The battery discharge rate shall never exceed the 1C charge rate.

- Long term continuous charge should be  $\leq 0.5(C)$ ;

The Battery Warranty remains valid if users charge the battery within the specified 0.5C limits for 80% of the operation time, for 20% of the operation time users can exceed the 0.5C limit. The battery charge rate shall never exceed the 1C discharge rate.

- The long term max. DOD of the battery pack shall be no more than 80%;

The Battery Warranty remains valid if users operate it within 65% of the DOD limits for 80% of the operation time, for 35% of the operation time the user can exceed the 80% DoD limit.

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- Never leave the Battery in an empty condition, (SOC), for more than 48Hours
- Never connect multiple Batteries in series
- Never connect the Battery with different types and /or manufacturers of battery.
- Never disassemble the Battery unless approved by YiLiNK
- Disconnect the external power supply and turn off the switch when removing or commissioning is needed
- Full cycle definition: Fully Discharge the Nominal Capacity of a fully charged battery and fully charge it afterwards. Micro cycles sum up to full cycles according to amount of energy charged and discharged.