

# WARRANTY TERMS FOR ENERGY STORAGE SOLUTIONS

Stack100

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## After-sales service and Limited warranty letters

### Important Note: Australian Consumer Law

If you have purchased your product in Australia, you should be aware that: This warranty is provided in addition to other rights and remedies held by a consumer at law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

All quality-related defects in all products sold by Dyness or its authorized distributors, retailers, or electricians (installers) with industry qualifications are covered by a comprehensive warranty.

### Authorized Service Partner

To provide friendly and timely service, Dyness is collaborating with numerous distributors, installers, and third-party service companies worldwide. Therefore, please consider them as Dyness' default service channels.

## 1 The object of warranty

Dyness' limited warranty applies to brand-new uninstalled products or those installed strictly in accordance with the installation manual. If the product has been installed in a building, the warranty shall transfer to the subsequent purchaser of the building or the product and remain valid as long as the product stays in the installed state.

## 2 Applicable products

Stack100-3S/4S/5S/6S/7S/8S/9S/10S/11S/12S/13S/14S/15S ESS System

Dyness warrants to the End User as follows:

## 3 Product Warranty

### Warranty start date definition

The warranty start date of the product is the time when the installer completes the on site installation.

### Warranty Period

The Products warranty period is ten (10) years from the warranty start date.

Full cycle: 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.

Regarding self-discharging degradation, 180 days after ex-work is ensured.

## 4 Performance Warranty

### Capacity performance warranty

Dyness warrants that the Products maintain seventy percent (70%) of the usable energy for ten (10) years from the warranty start date and a Minimum Energy Throughput calculated from the warranty start date. The usable energy and minimum energy throughput for each product model are set out in the table below. The term "usable energy" here refers to 90% of the initial nominal energy of the product printed on the product label.

The above warranty terms also includes the products that participate in a Virtual Power Plant (VPP) program, where they generate revenue by engaging in energy markets, demand response programs, and ancillary services.

**Table 4-1 Product Energy**

| Product Type | Nominal Energy(kWh) | Minimum Energy Throughput (MWh) |
|--------------|---------------------|---------------------------------|
| Stack100-3S  | 15.36               | 45.27                           |
| Stack100-4S  | 20.48               | 60.36                           |
| Stack100-5S  | 25.6                | 75.45                           |
| Stack100-6S  | 30.72               | 90.54                           |
| Stack100-7S  | 35.84               | 105.63                          |
| Stack100-8S  | 40.96               | 120.72                          |
| Stack100-9S  | 46.08               | 135.82                          |
| Stack100-10S | 51.2                | 150.91                          |
| Stack100-11S | 56.32               | 166                             |

|              |       |        |
|--------------|-------|--------|
| Stack100-12S | 61.44 | 181.09 |
| Stack100-13S | 66.56 | 196.18 |
| Stack100-14S | 71.68 | 211.27 |
| Stack100-15S | 76.8  | 226.36 |

**Capacity measurement condition**

Ambient temperature: 25~30℃

Initial battery temperature from BMS: 25~30℃

**Charging/discharging method**

Table 4-2 Charging/Discharging method

| Product Type | Charge:   | Discharge:   |
|--------------|---|--|
| Stack100-3S  | (0.2) CC/CV (Constant voltage: (175.2) V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (134)V)/Current at (0.2)C    |
| Stack100-4S  | (0.2) CC/CV (Constant voltage: (233.6) V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (179.2)V)/ Current at (0.2)C |
| Stack100-5S  | (0.2) CC/CV (Constant voltage: (292) V/ Cut-off current (0.05) C)   | (0.2)CC (Cut-off voltage: (224)V)/ Current at (0.2)C   |
| Stack100-6S  | (0.2) CC/CV (Constant voltage: (350.4) V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (268.8)V)/ Current at (0.2)C |
| Stack100-7S  | (0.2) CC/CV (Constant voltage: (408.8) V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (313.6)V)/ Current at (0.2)C |
| Stack100-8S  | (0.2) CC/CV (Constant voltage: (467.2) V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (358.4)V)/ Current at (0.2)C |
| Stack100-9S  | (0.2) CC/CV (Constant voltage: (525.6 )V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (403.2)V)/ Current at (0.2)C |
| Stack100-10S | (0.2) CC/CV (Constant voltage: (584) V/ Cut-off current (0.05) C)   | (0.2)CC (Cut-off voltage: (448)V)/ Current at (0.2)C   |
| Stack100-11S | (0.2) CC/CV (Constant voltage: (642.4) V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (492.8)V)/ Current at (0.2)C |
| Stack100-12S | (0.2) CC/CV (Constant voltage: (700.8) V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (537.6)V)/ Current at (0.2)C |
| Stack100-13S | (0.2) CC/CV (Constant voltage: (759.2) V/ Cut-off current (0.05) C) | (0.2)CC (Cut-off voltage: (582.4)V)/ Current at (0.2)C |

|              |  |  |
|--------------|--|--|
| Stack100-14S | (0.2) CC/CV (Constant voltage: (817.6) V/ Cut-off current (0.05) C | (0.2)CC (Cut-off voltage: (627.2)V)/ Current at (0.2)C |
| Stack100-15S | (0.2) CC/CV (Constant voltage: (876) V/ Cut-off current (0.05) C   | (0.2)CC (Cut-off voltage: (672)V)/ Current at (0.2)C   |

Note. Current and voltage measurement at battery DC side

## 5 Repair or Replace

Subject to below, Dyness will, at its sole option, repair or replace the Products or any part thereof, if such Products are faulty or defective in manufacture or materials.

Dyness will endeavor to replace any Products which require to be replaced under this Warranty with products of equivalent appearance, size, and functionality on a like for like basis. Replacement of Products may not be brand new but with quality and specification compliant with the Product specifications. Where this is not feasible, due to technological advancements, Dyness will supply another type of product of at least the same value and standard, although it may be of different size, shape, color and/or capacity. If the Products are replaced within the Warranty Period, the remaining Warranty Period will be automatically transferred to the replacement products.

## 6 Exclusion

Damage to the Products resulting from any of following activities is not covered by this Limited Warranty:

- (1) Damage due to improper storage before installation.
- (2) Damage caused during transport, exceeding of temperature range during use.
- (3) Damage or defect arise due to the End-User unauthorized use of his own design, materials, mixed, function changed or service to the Products.
- (4) Product damage and defect caused by End-User improper use, mixed-use, misuse, abuse, which non-conforming with User Manual.
- (5) Appearance damage, deformation, abrasion, stain, rust, mildew, or similar external influences caused by the End-User during use.
- (6) The model number, nameplate or product serial number of the product has been altered, erased or unrecognizable or the tamper-evident logo has been arbitrarily damaged.
- (7) Products suffered any external influences including unusual physical, natural force, electrical stress (power failure surges, inrush current, lightning, flood, fire, accidental breakage, etc.)

(8) Product damage caused by external force, force majeure (causes of natural disasters such as unforeseeable, unavoidable and insurmountable objective events, including but not limited to war, civil war, strike, riot or other activities intervened by government, terrorism, war, riots, strikes, unavailability of suitable and sufficient labor or materials and other events which are out of control of Dyness) or other third party.

(9) Removal and reinstallation at another place from the original installation without the written confirmation from Dyness.

(10) Damage of Products arise due to renewal of the national or regional laws or regulations.

(11) Product damage and defect caused by End-User deliberately or by willful act.

(12) Products failure is not reported to the Dyness Authorized Service Partner or Dyness within 30 days of appearance.

(13) Purchase and installation of the Product in an area other than the local area.

(14) Warranty period specified above has already expired.

Dyness shall not be liable for indirect, incidental, consequential or special damages, howsoever caused, including, but not limited to, loss of use, loss of profits, loss of production, or loss of revenues.

## **7 Warranty Obligations**

If a claim is received within the warranty period and a fault is discovered that is covered, Dyness will, at its own discretion,

(1) Fix the issue by changing configurations or updating software.

(2) Exchange the inverter/battery system for a system that is brand new or refurbished but at least functionally equivalent to the original system, or an upgraded model which is either functionally equivalent or functionally superior to the original

one. If Dyness repairs or replaces a product part, its warranty continues for the remaining portion of the Warranty Period or 6 Months from the date of the repair or replacement, whichever is greater.

In case of replacement, the product removed shall become the property of Dyness. If the system is found not to be covered by this Limited Warranty, Dyness reserves the right to charge a handling fee. The warranty can only be transferred from the original owner to next owner in case the device is still installed in the initial location.

### **Out of Warranty**

(1) If the product is out of warranty or not covered by the warranty, Dyness may (in its discretion) provide certain after-sales service to Original Buyer, but all the costs and expenses, such as parts, labour costs and travel expenses, shall be borne by Original Buyer.

## **8 Claim Process**

In the event of a fault, an End-User should contact the Installer and contact Dyness via local hotline if necessary. If the product is suspected to be faulty, Dyness will ask to submit a warranty claim with reasons. Please make the claim within 30 days from the failure date, otherwise Dyness will treat it as you have abandoned the right to make a warranty claim. For a Warranty Claim to be processed, it must include but not limited following items:

- (1) a copy of your invoice, receipt, commissioning report and details of how we should contact you.
- (2) Description of trouble shooting actions before the failure and detailed information of previous problems.

## **9 Applicable Law**

The Warranty is subject to the local legislation and regulations.

The company reserves all rights for the final explanation of the warranty terms.

## **10 Contact Details**

### **Dyness Digital Energy Technology Co., Ltd.**

Sales tel: +86 400 666 0655

Service tel: +31 10 30 717 52

Add: Plant 5, No. 688 Liupu Road, Guoxiang Street, Wuzhong Economic Development Zone, Suzhou City, Jiangsu Province China

### **Australia Importer:**

Company: Dyness Aus Pty Ltd.

Add: 5 ROSEBANK AV, EPPING NSW, 2121

ABN & GST 89 666 753 313

Tel: +61 432 582 886

E-mail: AUService@dyness-tech.com

### **Daqin New Energy Tech (Taizhou) Co., Ltd.**

Tel: + 0523-88510062

Add: No. 511 Chenzhuang West Road, Sanshui Street, Jiangyan District, Taizhou City, Jiangsu Province China

## Appendix 1

### Usage and Transportation requirements

This product includes Lithium iron phosphate battery and the Accessory Components. In order to ensure that the buyer is entitled to full warranty policy, the following clauses should be strictly observed in the transportation and use of products. The product failure or damage caused by violation of the following requirements is not covered by this Limited Warranty.

#### 1 Operating environment requirements

Working temperature : -10~55 °C

Working humidity: 5%~95% RH

Altitude: <4000m

No conductive dust and corrosive gas

Installation location should be away from the sea to avoid brine and high humidity environment.

The ground is flat and level.

There is no flammable explosive near to the installation places.

Keep away from dust and messy zones, water source and heat source, prevent equipment from entering water and overheating.

#### 2 Storage environment requirements

Short-term storage environment:

Within 3 months of temperature range is -20~40 °C.

Relative humidity <85%RH.

No corrosive gases.

More than 3 months long-term storage environment:

temperature range for -10~35 °C

Relative humidity <65% RH No corrosive gases

If long-term storage is required, it should be recharged every 6 months, and no less than 80% of SOC should be charged.

Keep away from dust and messy zones, water source and heat source, prevent equipment from entering water and overheating

#### 2 Transportation requirements

(1) When the product is transported separately, the individual products should be transported with the original packaging materials of the Seller. If long-distance transportation such as sea transportation is required, additional packaging measures should be taken to ensure the safety of transportation. The product stack in transportation does not exceed 10 layers.



- (2) If the product does not use Seller's original packaging material transportation, Buyer shall fully consider the risks of vibration, drop and collision in the transportation process, and adopt adequate product protection measures.

### 3 Equipment installation requirements

- |   |                                       |  |
|---|---------------------------------------|--|
| 1 | Visual inspection                     | <p>Check the appearance for damage and check the attachment variety and quantity according to the packing list.</p> <p>Verify that the device is off state.</p>  |
| 2 | Electrical specification confirmation | <p>The rated working voltage of the energy storage PACK is Stack100-3S:153.6V, Stack100-4S:204.8V, Stack100-5S:256V, Stack100-6S:307.2V, Stack100-7S:358.4V, Stack100-8S:409.6V, Stack100-9S:460.8V, Stack100-10S:512V, Stack100-11S:563.2V, Stack100-12S:614.4V, Stack100-13S:665.6V, Stack100-14S:716.8V, Stack100-15S:768V, and it should be confirmed that the storage energy inverter battery power interface parameter is matched.</p> <p>Confirm that the maximum charging and discharging current designed by the system meets the specification requirements of the energy storage PACK.</p> <p>The external power supply should not generate a surge that causes damage to the battery or BMS.</p> |
| 3 | Connection                            | <p>When connecting the power line, pay attention to the positive and negative electrode, avoid reverse connection and short circuit.</p> <p>It is forbidden to connect the battery directly to ac power.</p> <p>The single battery module must be used in series and not in parallel. Clusters cannot be used in series; they must be used in parallel.</p> <p>Do not mix batteries with other factory batteries or other types of batteries.</p> <p>The battery should be reliable grounding, grounding resistance should be less than 1 <math>\Omega</math>.</p>   |

### 4 Equipment Use

- |   |          |   |
|---|----------|---|
| 1 | Charging | <p>The battery's long-term max continuous charging current should be <math>\leq 1</math> C.</p> <p>If the battery is over-discharged, charge it within 48 hours</p> |
|---|----------|---|

after the battery is depleted.

- |   |                |   |
|---|----------------|---|
|   |                | The battery's long-term max continuous discharging current of the battery should be $\leq 1C$                               |
| 2 | Discharging    | The maximum depth of discharge (DOD) of Battery PACK is no more than 95%  |
| 3 | Cycles         | This warranty covers unlimited cycles for 10 years.   |
| 4 | Move           | To remove the battery, disconnect the external power supply and turn off the switch.  |
| 5 | Maintain       | It is forbidden to open the battery shell or dismantle the components before obtaining the written authorization of Seller. |
| 6 | Fire emergency | In case of emergency, for the use of fire-fighting equipment, use only dry powder fire extinguishers.                       |