

WARRANTY TERMS FOR ENERGY STORAGE SOLUTIONS

Stack 100

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, Stack100-4S, Stack100-5S, Stack100-6S, Stack100-7S, Stack100-8S, Stack100-9S, Stack100-10S, Stack100-11S, Stack100-12S, Stack100-13S, Stack100-14S, Stack100-15S ESS unit

Dyness warrants to the End-User as follows:

3 Product Warranty

Warranty start date definition

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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 95% 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	Usable Energy (kWh)	Minimum Energy Throughput (MWh)
Stack100-3S	14.592	56.064
Stack100-4S	19.456	74.752
Stack100-5S	24.32	93.440
Stack100-6S	29.184	112.128
Stack100-7S	34.048	130.816
Stack100-8S	38.912	149.504
Stack100-9S	43.776	168.192
Stack100-10S	48.64	186.880
Stack100-11S	53.504	205.568

Stack100-12S	58.368	224.256
Stack100-13S	63.232	242.944
Stack100-14S	68.096	261.632
Stack100-15S	72.96	280.320

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.

Dyless 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, Dyless 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) The Battery or packaging is damaged due to improper storage before installation;
- (2) Damage during the transportation of the Battery;
- (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 Dyless) 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) Use of an incompatible inverter, rectifier or PCS.
- (13) Products failure is not reported to the Dyness Authorized Service Partner or Dyness within 30 days of appearance.
- (14) Purchase and installation of the Product in an area other than the local area.
- (15) 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 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 End-User, but all the costs and expenses, such as parts, labour costs and travel expenses, shall be borne by Original End-User.

8 Claim Process

In the event of a fault, an End-User should contact the Installer from whom the Battery system was purchased to arrange preliminary trouble shooting 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 the invoice, receipt of the Battery
- (2) Information regarding all defective system, including model No., serial number, installation date and failure date
- (3) 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

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Appendix 1

1 Precondition For Warranty

This Warranty is subject to the following conditions:

Storage environment requirements

- (1) Short-term storage environment
- (2) Within 3 months of temperature range is $-20\sim 40^{\circ}\text{C}$. Relative humidity $<85\%\text{RH}$. No corrosive gases
- (3) More than 3 months long-term storage environment: temperature range for $-10\sim 35^{\circ}\text{C}$
- (4) Relative humidity $<65\%\text{RH}$. No corrosive gases
- (5) If long-term storage is required, it should be recharged every 6 months, and no less than 80% of SOC should be charged
- (6) Keep away from dust and messy zones, water source and heat source, prevent equipment from entering water and overheating

Operating environment requirements

- (1) Ambient temperature range: $-20\sim 50^{\circ}\text{C}$
- (2) Working humidity: $5\%\sim 85\%\text{RH}$
- (3) Altitude: $<4000\text{m}$
- (4) No conductive dust and corrosive gas
- (5) The ground is flat and level.
- (6) There is no flammable explosive near to the installation places.
- (7) The equipment needs to be installed in coastal areas one kilometer away from the coastline

Transportation requirements

- (1) When the product is transported separately, the individual products should be transported with the original packaging materials of the Authorized 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 6 layers.
- (2) If the product does not use Authorized Seller's original packaging material transportation, End-User shall fully consider the risks of vibration, drop and collision in the transportation process, and adopt adequate product protection measures.

Equipment installation requirements

1	Visual inspection	Check the appearance for damage and check the attachment variety and quantity according to the packing list. Verify that the device is off state.
2	Electrical specification confirmation	The rated working voltage of the energy storage PACK is 51.2V, and it should be confirmed that the storage energy inverter battery power interface parameter is matched
		Confirm that the maximum charging and discharging current designed by the system meets the specification requirements of the energy storage PACK
		The external power supply should not generate a surge that causes damage to the battery or BMS.
3	Connection	When connecting the power line, pay attention to the positive and negative electrode, avoid reverse connection and short circuit.
		It is forbidden to connect the battery directly to ac power. The battery can be used in parallel and not in series.
		Do not mix batteries with other factory batteries or other types of batteries.
		The battery should be reliable grounding, grounding resistance should be less than 1 Ω

Equipment Use

1	Charging	The battery's long-term max continuous charging current should be ≤ 0.5 C. If the battery capacity is empty, please charge it within 48 hours after the battery is empty.
2	Discharging	The battery's long-term max continuous discharging current of the battery should be ≤ 0.5 C The maximum depth of discharge (DOD)of Battery PACK is no more than 90%
3	Cycles	This warranty covers ≥ 6000 cycles, 70%SOH for 10 years. 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.
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 Authorized Seller.
6	Fire emergency	In case of emergency, for the use of fire-fighting equipment, use only dry powder fire extinguish



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