

## Performance Guarantee

The Warranty and attachments incorporated herein expressly state all operating restrictions and conditions applicable to the below Guaranteed kWh of Storage Capacity

The following guaranteed capacities are expressed as percentages of the nameplate kWh value. The Guaranteed kWh of Storage Capacity is determined by multiplying the nameplate kWh value by the Warranted Capacity (as calculated below). The Guaranteed kWh of Storage Capacity provided for any Warranty Period year applies to that entire year – for example, the Year 1 value applies to the entirety of the first Warranty Period year following the Warranty Commencement Date.

The degradation factor will be applied when conditions below are met:

–Performance Guarantees ( at condition of 0.33C –Cells Average Temperature:20-30°C  
-94.5% battery system DOD-one fully installed container with 10racks)

YEAR	SOH
0	100.0%
1	92.6%
2	89.2%
3	86.6%
4	84.3%
5	82.2%
6	80.3%
7	78.6%
8	76.9%
9	75.4%
10	73.9%
11	72.5%
12	71.2%
13	69.9%
14	68.5%
15	67.1%

Guaranteed Usable energy=Nameplate energy (contracted energy)\* SOH\* DOD

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**Noted:**

**Usable Energy Test Procedure:**

- a. Using the system EMS dashboard, set a power dispatch rate equal to the full system active power discharge nameplate rating at the DC Meter, continue until the system at discharge cut-off voltage;
- b. Record the ESS system DC Meter reading (the “Meter Charge Start”)
- c. Using the system EMS dashboard, set a power dispatch rate equal to the full system active power charge nameplate rating at the DC Meter, continue until the system at charge cut-off voltage.
- d. Record the ESS system DC meter reading (the “Meter Charge Finish”)
- e. Allow the system to rest for 60 minutes;
- f. Record the ESS system DC meter reading (the “Meter Discharge Start”)
- g. Using the system EMS dashboard, set a power dispatch rate equal to the full system active power discharge nameplate rating at the DC Meter, continue until the system at discharge cut-off voltage (Meter Discharge Finish)
- h. System Discharge Capacity = Meter Discharge Finish - Meter Discharge Start
- i. System Charge Capacity = Meter Charge Finish – Meter Charge Start

**Usable Energy Test Conditions:**

- a. The ESS must start the test and show no alarms, if alarms are present the Customer shall work with Jinko to resolve these alarms and any warranty repairs will be performed by Jinko prior to performing the Annual Usable Energy Test.
- b. The PCS must be online and working properly (no alarms) for the duration of the test.
- c. Average cell temperature as measured by BMS must be between \_\_20\_\_°C-\_\_30\_\_°C for duration of test; and
- d. Once the test begins, if problems are identified with the performance of the ESS system including but not limited to (DC racks, BMS), Jinko will perform warranty repair or replacement of faulty equipment and the Annual Usable energy test will be repeated.
- e. The PCS efficiency will be counted as separate loss, and aux consumption of battery

container will be excluded.

**Cycle definition:**

“Cycle” means a continuous ESS operating period in which a complete charge and a complete discharge occurs. Charging or discharging that is less than a complete charge or discharge is considered a partial Cycle. A full Cycle is deemed to have occurred when the ESS goes through multiple partial Cycles in which the aggregate charging or discharging of the ESS measures a complete Cycle during that period. For example, an ESS with 100%SOC, the first partial cycle discharging energy is 50% SOC, and then charging the system to 100% SOC; for the second partial cycle, discharging until 50% of SOC, and then charging it to 100% SOC. The sum of these two partial cycles shall be considered as one full cycle.

**Acceptable Conditions:**

All lithium-ion batteries must be kept and operated within certain electrical and environmental conditions to prevent irreparable damage to the battery cell. As such this Performance Guarantee will terminate if the ESS is ever operated or experiences conditions outside of the parameters described in the Table below

Parameter	Acceptable Conditions
Excessive Moisture	<p>In the event condensation or moisture occurs on the ESS components, measures shall be taken to dehumidify the ESS prior to operation to minimize the risk of damage to the boards. If damaged by owner/operator’s operation or storage of the ESS in an excessive moisture environment, such damage may void this Performance Guarantee.</p> <p>(Allowable humidity range: Working conditions: &lt; 95%RH; Storage conditions: &lt;</p>

	80%RH)
Operating Range	Not to exceed the system charge rate (Maximum 0.33C)
System Usage and Idle State	<p>The ESS is required not to be idle for a prolonged period. It is required to cycle once at least every 90 days.</p> <p>Following installation, if the ESS system is stored in an idle state for periods longer than 90 days, the ESS must kept at 30-40% SOC and a temperature between _20 to 30_°C and &lt;_80_% Relative humidity non-condensing.</p> <p>During periods when the ESS system is not operational the Customer is responsible for maintaining acceptable environmental conditions as excessive heat and moisture can damage the ESS</p>

The following article (a) or (b) no matter who arrives first, the system will enter the next warranty year:

- (a) The cycles has reached to 365 cycles;
- (b) The date falling 12 calendar months in the given year;