



SAJ Limited Warranty for Batteries (energy storage devices)-US

This Limited Warranty applies to SAJ Electric BU2 Series, B2 Series lithium-based battery System purchased and installed in North America.

Products covered:

BU2 Series, B2 Series lithium-based battery System.

Warranty Period

SAJ provides a standard warranty period (for BU2 Series, B2 Series) of 120 months (10 years) from the date of completion of commissioning or 126 months (10 years and 6 months) from the date of product shipment from SAJ, whichever is earlier. The Battery system must comply with the operating conditions under the specification and the installation manual supplied by SAJ.

Product Suitability

The Product is designed to meet the UL safety standards. SAJ respect local safety standards and regulations. Due to the varying local safety standards and regulations linked with the different installation location. SAJ cannot guarantee that the Product meets all applicable requirements on each installation location. Customer hold the responsibility to check and verify the national and local codes and regulations to assure the purchasing, transportation, installation and operation of the Product can be compliant with, before purchasing of the Product.

Limited Performance Warranty

SAJ guarantees that the battery part retains seventy percent (70%) of Nominal Energy for 10 years from the commissioning date (no more than ten years and six months (126 months) from the date of product shipment from SAJ), or for a Minimum Throughput Energy which is calculated from the commissioning date, whichever comes first, under the standard capacity test conditions.

Product Type	Inverter Model	Battery Model
BS	/	B2-5.0-LV1/LV2/LV5-US
	/	BU2-7.3-HV1/HV5
	/	B2-7.3-HV1/HV5
	/	B2-14.6-HV1/HV5
	/	B2-21.9-HV1/HV5

Notes:

1. BS (battery System) including Li-ion battery unit and BMS.

The “Nominal Energy” herein means the initially rated capacity of the product as indicated on the label of the products. The precondition warranty shall be as follows:



- The ambient temperature during the battery operation shall not fall below -20°C or exceed 50°C.
- The Minimum Throughput Energy is within the value indicated on the table below:

Battery Model	Nominal Energy	Minimum Throughput Energy
B2-5.0-LV1/LV2/LV5-US	5.0kWh	13.75MWh
BU2-7.3-HV1/HV5	7.3kWh	20.07MWh

Notes:

1. The Minimum Throughput DC Energy per kWh Usable Energy is 2.75 MWh.
2. The Minimum Throughput DC Energy of B2-7.3*N-HV1/HV5 is 20.07*N MWh (N=1,2 or 3).

Standard capacity test condition:

Under ambient temperature of 25~28°C, ambient humidity of 30%~80%.

Discharge the battery with constant current until the battery reaches End of Discharge Voltage ("EODV") or its self-protective voltage, wait for 10 minutes.

charge: charge the battery pack with a constant current under constant voltage until its full capacity, wait for 10 minutes.

discharge: discharge the battery pack with a constant current until the battery reaches its End of Discharge Voltage (EODV) or its self-protective voltage, and record the current, voltage and time. The remaining usable energy is the integral of discharge time and current multiplied by voltage.

Test value list:

Product Model	End of discharge voltage(V)	Constant charge voltage(V)	Constant current(A)
B2-5.0-LV1/LV2/LV5-US	42	58.4	20
BU2-7.3-HV1/HV5	89.6	115.2	15
B2-7.3-HV1/HV5	89.6	115.2	15
B2-14.6-HV1/HV5	179.2	230.4	15
B2-21.9-HV1/HV5	268.8	345.6	15

Preconditions for Warranty

- The defect of product occurs within the warranty period as determined above.
- If the covered product has failures or warnings which leads to battery not working or working abnormally, the relative information must be reported to your distributor within 30 days of appearance. Or, please call the SAJ service phone number for record and send the warranty card to SAJ Service Center by fax or email within 30 days of appearance.
- Covered product must be operated within the working temperature range 0~50°C and shall not be exposed in an installed area to direct sunlight or rain.
- Covered product should be installed and commissioned by a professional installer.
- The covered storage system shall only contain the battery, it does not include any accessories or tool kit items provided with the Product.
- End user shall operate and use the product properly according to User Manual.



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- The installation of battery part for the end user shall be completed within 6 months from the date of product shipment from SAJ.
- The product is not suitable for supplying life-sustaining medical devices and automotive applications.
- It is required that all the storage systems have internet connection for SAJ monitoring and remote firmware upgrades. If the storage system is not connected to internet, or has not been registered with SAJ, SAJ may not be able to honor the full ten-year warranty, but we will always honor the warranty for at least N (refer to below table) years from the date of product shipment from SAJ.

• Product Type	Inverter Model	Battery Model	N
BS	\	B2-5.0-LV1/LV2/LV5-US	5.5
	\	BU2-7.3-HV1/HV5	5.5
	\	B2-7.3-HV1/HV5	5.5
	\	B2-14.6-HV1/HV5	5.5
	\	B2-21.9-HV1/HV5	5.5

To avoid warranty reduction caused by internet connection failure, please contact your distributor if there is an internet connection failure or outage lasting for one month or more.

Claiming Process

In the event of a fault, please contact the installer or distributor who sold you the battery to arrange preliminary troubleshooting and contact SAJ if necessary.

In order to make a claim under this warranty, the end user must:

- Provide all of the information requested in the Warranty Card accompanying these Terms.
- Provide the serial number of the faulty device and installation date.
- Provide the proof of the original purchase of the product and any subsequent ownership transfer.
- Provide description of alleged defect(s).

Remedy

- If the covered product is confirmed by SAJ or authorized service partner to be defective or non-conforming, SAJ will replace or repair the defective or non-conforming product at its sole discretion. Any maintenance or replacement shall not be deemed as extension or recalculation of warranty period.
- SAJ will be responsible for the approved repair or replacement costs in connection with such non-conforming or defective products. The replaced battery or product in exchange will become SAJ's property immediately.
- If the product/parts are not manufactured anymore, SAJ, at its option, may replace it with a different type of product with equivalent function and quality to the original product/ part or credit the market price of an equivalent product at the time of the warranty claim.
- If the product is repaired or replaced under this warranty, the remaining warranty period of the original product will apply to the repaired or replacement product.
- The replacement battery or accessories may not be a brand new item, but the quality and specification are in accordance with product specification.



Exclusion of Liability:

Product problems caused by the following conditions are not covered by the warranty. (SAJ authorized dealers and distributors are responsible for the following investigations).

- Warranty period specified above has already expired.
- End user fails to provide all the information required for Claiming Process.
- Failure to notify distributor, dealer or SAJ of defective products within 30 days of appearance.
- Attempt to modify product, whether by physical means, programming or otherwise, without the permission from SAJ or by personal unauthorized by SAJ.
- Product damage and defect caused by improper installation, commissioning, use and operation by end user or personal unauthorized by SAJ, which fails to comply with any/all user manuals.
- Damage to product during transportation, incorrect installation, exceedance of working temperature range during use and improper use.
- Use of incompatible PCS (inverter, DC/DC converter etc.).
- Insufficient ventilation of Battery.
- The effects of other objects and force majeure (including but not limited to floods, lightning, earthquake, grid overvoltage, bad weather, fire, etc.).
- Removal and reinstallation of the product at a location other than the original installation location, without the permission from SAJ.
- Cosmetic defects on the enclosure that does not affect the normal operation of battery.
- Product damage caused by the intentional or gross negligence of the end user.
- Defects of product arise due to amendment or modification of national or regional laws or regulations.
- Theft or vandalism of the Product or any of its components.

Non-applicability of Warranty Claim

If the claimants do not conform to the above warranty terms, SAJ will claim for all other expenses incurred by the claimants.

Warranty Limitations and Disclaimer

Unless otherwise specified herein, to the extent permitted by applicable law, this Warranty and above remedies shall be exclusive and replace all other guarantees, remedies and conditions, whether oral, written, statutory, expressed or implied. To the extent permitted by applicable law, SAJ expressly disclaimed any and all legal or implied warranty, including but not limited to warranties of merchantability, fitness for a particular purpose and any warranties against latent or potential defects. If SAJ cannot disclaim implied warranty as prescribed by applicable law or the guarantee specified by applicable laws, SAJ limits the duration of and remedies for such guarantees and warranties to durations and remedies described in this Limited Warranty.

No distributor, agent or staff of SAJ and / or SAJ authorized service partner can modify or waive any part of this warranty.

The legality and enforceability of remaining clauses herein shall not be affected or damaged if any of clauses herein is adjudged to be illegal or unenforceable.

To the greatest extent permitted by law, SAJ will not be liable for any consequential, incidental, direct, indirect, special, accidental, punitive or derivative losses arising out of or related to this purchase or use of Products and its system, including but not limited to the loss of use, loss in income, actual or expected



loss in revenue (including contract revenue losses), loss of the use of money, loss of anticipated savings, loss of business, loss of opportunity, loss of goodwill, loss of reputation, personal injury or damage loss, or the indirect or derivative loss or damage (including any expense arising from the replacement of equipment and property, resumption of production, etc.) caused by any reasons.

To the greatest extent permitted by law, SAJ’s liability from any cause whatsoever under this warranty shall not exceed the amount of the purchase price paid by end user to SAJ for such product. Some countries and regions do not allow, or restrict, the exclusion or limitation of damages, including incidental or consequential damages, so the above limitation or exclusion may not apply to you, or may only apply to a limited extent.

Out of Warranty

If the warranty is expired, SAJ will charge the end user for on-site service expense, parts expense, labor expense and logistics expense. Please see the table below for detailed standards:

	Send back to the factory for repair	On-site service
No need to replace parts	Labor costs + logistics costs (delivery cost of devices from and to SAJ)	Labor costs + on-site service fees
Need to replace parts	Labor costs + parts costs + logistics costs (delivery cost of devices from and to SAJ)	Labor costs + on-site service fees + parts costs

Note:

On-site service expense: Travel cost of technicians present at the site.

Parts expense: Cost of replacement parts (including any freight/management fees).

Labor expense: The labor cost of technicians, including personnel who repair, maintain, install (hardware or software) and debug faulty equipment.

Logistics expense: Logistics costs for delivery of defective products from customer to SAJ and replacement products from SAJ to customer, including customs duties and other derivative charges.

Definitions

In this document:

- Minimum Throughput Energy means the Min. accumulated discharge energy during the warranty period.
- Nominal Energy means the initially rated capacity of the product as indicated on the label of the products.
- User Manual means the instructions and manuals issued by SAJ with the Product that set out how the Product should be installed and operated.
- Professional Installer means the technical personnel who have been trained and hold relevant professional certificates
- SAJ means Guangzhou Sanjing Electric Co., Ltd of SAJ Innovation Park, No.9, Lizhishan Road, Guangzhou Science City, Guangdong, P.R.China.
- You means the natural person that acquired the Product.



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