



Warranty

BRES 280Ah

Sicon Chat Union Electric Co., Ltd

2024-11



SCU Warranty for Energy Storage System

1. Standard Terms of SCU Service

1.1 This warranty is effective for the SCU BRES series(Energy storage system)Model number BRES-215-100.including its peripheral devices (PCS, Batteries, BMS, PMS.), hereinafter referred to as the“Products”.

1.2 Country and Region coverage: all country and regions, including China Hong Kong special administration region, Macao special administration region, Taiwan province, excluding mainland China ONLY.

1.3 This warranty can be claimed by the owner, purchaser or authorized distributor of the Products.

1.4 This warranty is offered by SCU as standard warranty. SCU reserves the right to offer special warranty conditions. In that case, these special conditions will be stated in a separate document in relation to the specific products.

1.5 Warranty commitment validity: strictly according to the formal sales contract signed with SCU.

2. Warranty Commitment

2.1 SCU customizes the warranty period and warranty method according to the product classification and specification of the product described in Attachment A. General Specification of Battery System. For details, please refer to Attachment B. Warranty Period.

2.2 The warranty commencement date shall be the earlier date between

- 1) The commissioning date, or
- 2) Three (3) Months after the Product is shipped from SCU factory

2.3 If the Product has been claimed to be defective under this warranty, SCU will, repair or replace the defective product, after receiving Buyer’s written consent.

2.4 During the warranty period, if the product itself has quality problems, buyer shall immediately notify SCU. SCU may require additional information regarding the troubleshooting, which may include, without limitation, proof of purchase and/or delivery, installation, serial and model numbers, effective failure description including images, videos, and other information to assist troubleshooting.

2.5 Based on failure information provided by buyer, SCU will make faults judgments, if the problem is determined to be the product's own problem, SCU will perform the free Warranty repair, if it is a person's damage or a disclaimer, the two parties will negotiate and make agreement in written,



the warranty service provider provides paid repair services.

2.6 The detailed Defective Warranty shall be implemented as follows:

Training, during the installation and commissioning of the BESS:

The Supplier shall provide one-time free training for Client. The training time and the number of trainees shall be negotiated and determined by both Parties.

Remote support:

The Supplier shall provide telephone or on-line or email support to guide the Client to resolve the common system failures. Supplier is liable for actions taken by Client under Supplier's instructions.

Spare Parts:

The Supplier will send the replacement of the faulty parts to buyer by sea/air freight after Supplier's validation of the claim in order to perform the repair or the replacement of the defective component.

2.7 Once the warranty period is expired, the product fails in functions or faulty, the warranty service provider can provide paid repair service. If the product needs to be replaced, SCU promises only charging the material and working cost (if necessary).

2.8 All claim/(s) for the spare parts during the warranty period shall be dealt between Supplier and Client or the owner directly, Supplier can support Client for investigation if needed. Claim process is detailed out as follows:

- Claims under this Limited Warranty must be made by notifying Supplier at the email address: yaochuang.liu@scupower.com
- The claim must include a description of any alleged defector energy capacity shortfall.
- Supplier shall notify Client within 24 hours (weekend and local public holidays are excluded) if it validates, disputes or denies the claim and shall provide its reasons for such denial.

2.9 The value of claim for the spare parts and the technical feasibility shall get the approval by both parties.

In case of defective product, The Supplier and the Client reserve the right to perform their own investigation. In case of disputes arising between the parties, attempts shall be made to find an amicable settlement in good faith. Accordingly, the Parties shall meet within Five (5) working days of receipt by either Party of written notice from the other Party specifying the dispute. The Parties shall negotiate and attempt to find, in good faith, a litigation-free solution to their dispute. If the Parties do not reach a litigation-free solution within Two (2) months as of the notification of the dispute, either Party may bring action before the Court of International Arbitration Hong Kong. The Supplier shall continue the performance of the Contract, including the disputed provisions, before and during the entire dispute settlement process.

2.10 Where applicable, extended warranty must be purchased along with the purchase of the Product. SCU to submit the quotation for extended warranty price if needed.

3. Disclaimer

The Product Warranty and Battery Performance Guarantee does not cover any defects or damages through no fault of SCU, including, not limited damages caused by:

3.1 Damage to the product caused by improper storage, or illegal abuse. Storage of the product shall be in accordance with Supplier's Operation & Maintenance manual. The Operation & Maintenance manual shall be provided before FAT and all related documents shall be provided in English Version.

3.2 Damage caused by not using according to the product guidelines, warnings or instructions including, but not limited to, technical Specification, O&M manual, installation guidelines, design guidelines, etc. These same documents shall be provided before FAT in English Version.

3.3 Improper maintenance or lack of maintenance, asset forth in the products user manuals, which shall be provided before FAT and all related documents shall be provided in English Version.

3.4 Accidents or damage caused by unauthorized modification, repair or dis-assembly.

3.5 The valid purchase certificate cannot be issued, or the purchase certificate has traces or records that do not match the product.

3.6 Product damage caused by intentional damage, negligence (including but not limited to crushing, collision, etc.) or force majeure (including but not limited to earthquake, lightning, flood, flood, war, etc.).

3.7 Normal exterior paint fading or any other normal wear and tear in appearance.

3.8 Loss caused by the goods lost or stolen.

3.9 Wear caused by wearable parts during normal use, loss of other equipment or parts caused by wear and tear.

4. Governing Law and Interpretation

The validity, interpretation and implementation of this Warranty Terms shall be governed by the laws of Hong Kong (China), excluding its conflicts of laws principles.

Attachment A. Warranty Period.

Warranty	Period	Years	Cost increased/ year *N%	Total cost
Battery	1 st - 3 rd	3	0	0
	4 th - 5 th	2	1.5%	3%
	6 th - 10 th	5	1.5%	7.5%
PCS	1 st - 3 rd	3	0	0
	4 th - 5 th	2	3%	6%
Others (Container, Air conditioner, Fire protection)	1 st - 3 rd	3	0	0

In addition to the requirements for the number of years, the warranty period of the battery also requires the cycle test, at 25 ° C ambient temperature, 90% DOD, EOL80%, 6000 times of cycle life, the number of years and cycle life are mainly the first (the definition of the number of cell cycles is a 100% complete charge and discharge, but in the energy storage system, incomplete charge and discharge is also defined as a cycle);

If the system is used between 2 to 5 kilometers to thesea, and warranty is voided if the system is used with 2 kilometers to thesea.

The warranty does not cover consumable parts, such as, but not limited to fuses, surge suppressor, filter etc.

Beyond the energy storage system requirements for the use of environmental and technical indicators, do not provide warranty services

Warranty is valid for items supplied by SCU only.

Attachment B. Battery Performance Guarantee

1. Performance Guarantee

A) On the premise that the customer installs, uses and maintains the equipment in strict accordance with the operating instructions, SCU offers battery performance guarantee from the warranty commencement date asset forth in the purchase agreement.

B) The capacity degradation of the BRES-1075-500 follow the profile exhibited in the table below:

Year	Cycle period	EOL(BOL Percentage)	Nominal energy (kWh)	Max Usable energy@DC (kWh)	Guaranteed energy@AC (kWh)
0	-	100%	215.04	208.59	197.84
1	600	≥93.21	200.44	194.43	184.40
2	600	≥90.30%	194.18	188.36	178.65
3	600	≥87.96%	189.15	183.47	174.02
4	600	≥86.10%	184.96	179.41	170.16
5	600	≥85.01%	182.81	177.32	168.18
6	600	≥82.50%	177.41	172.09	163.22
7	600	≥80.3%	172.68	167.50	158.86
8	600	≥78.85%	169.56	164.47	155.99
9	600	≥77.48%	166.61	161.61	153.28
10	600	≥76.12%	163.69	158.78	150.59

Battery Capacity Degradation Profile

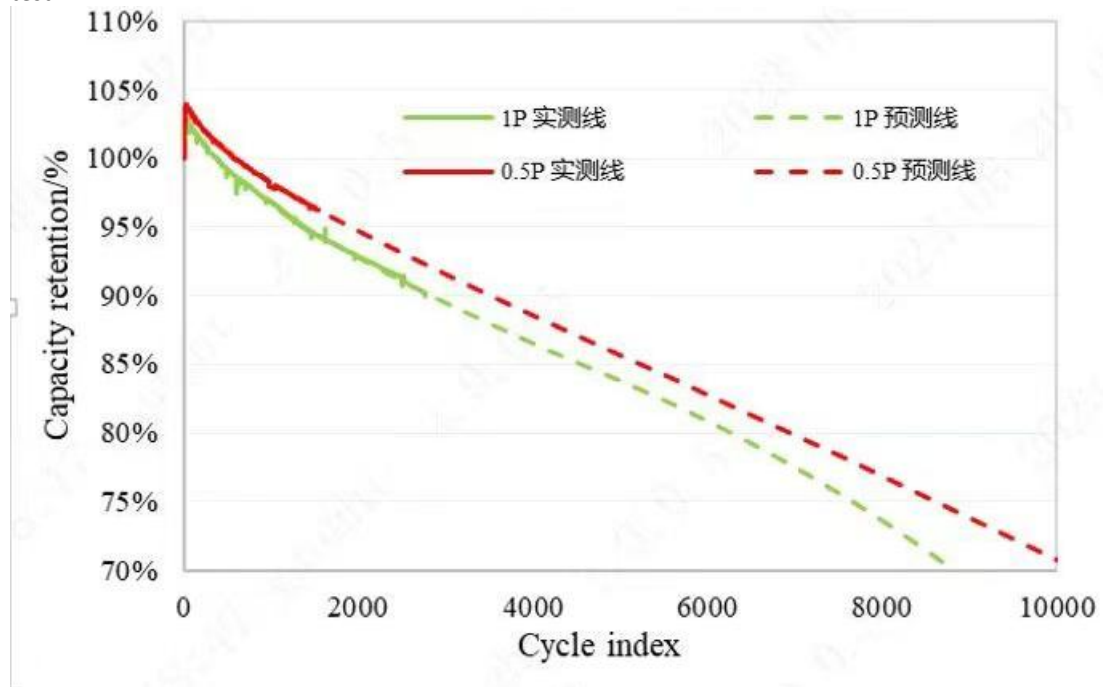
C) The relationship between the number of battery cycles and the charge-discharge rate (the solid line is the measured data, the dotted line is the predicted data)

This data is obtained from the full discharge and cyclic test at an ambient temperature of 25° C ±2 in accordance with the GB36276 cycle test standard.

Notes:

1. The annual attenuation and cycle times of the battery exist at the same time, and this data can only represent the performance index of the battery product, and cannot be used as a reference basis for system warranty;

2. The performance tests include Battery System Capacity test.



3. If the product fails to meet the specified performance in contract, The Supplier warrants to provide spare parts and technical support to Client to recover operation and performance to meet the performance requirements.
4. For application scenario of average cycles @ 90% DOD or 100% DOD, only one scenario can be referred as the warranty basis, and supplier shall make the provision to share the applicable BMS data on Client's monitoring & asset management platform.
5. Environment Control: Supplier takes the duty to maintain battery container temperature at 25 °C +/-5 °C with air duct design, while ensuring that peak temperature shall not go

higher than 35 °C. Battery compartment is designed to maintain all batteries at similar temperature. The Client shall take the duty to record the battery room temperature.

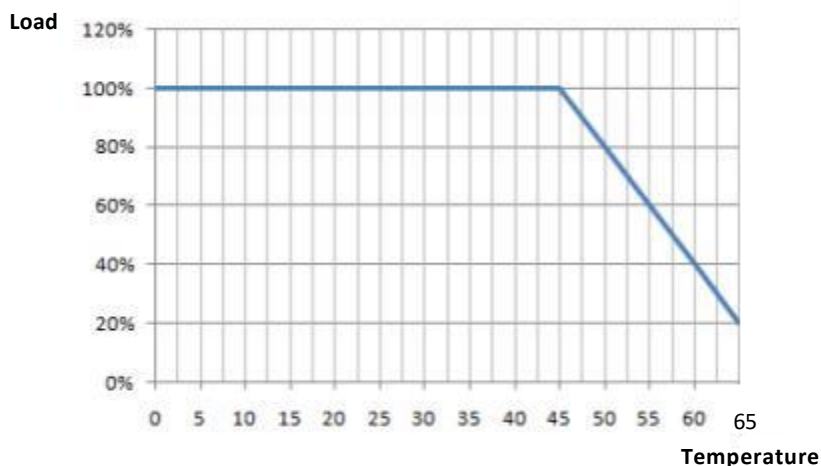
6. Management of Battery: Battery operation shall be managed by BMS and PCS. Battery operation information shall be recorded by BMS.
7. BMS contains monthly log of the following information in internal memory, which, at the time of warranty claims can be extracted jointly by defined Client & Battery Supplier.

This information is mainly as below:

- a. Number of charge / discharge cycles performed each month;
- b. Depth of discharge (DOD) of each cycle;
 - I. Time duration of each charge / discharge cycle, capacity drawn per cycle, charging & discharging current per cycle;
 - II. Ambient temperature of each module during the charge / discharge cycle and still time, the four internal cell temperatures of each module.
8. Supplier would replace the battery during warranty period on the basis of faulty cell (individual cell) but not as whole string/(s) (string means all of the cells in same series). E.g., for 51.2V system, there is 16 pieces of 3.2V individual cells as in one string, if one or two cells got faulty because of certain reason, Supplier would replace the faulty cell/(s) instead of whole string. Supplier will do necessary cell/Battery Pack matching process (SoC & SoH), a replacement battery will be provided to ensure site has backup power. The Warranty battery will then be repaired and used in another instance that requires a replacement or refitted to site.

D) The **GRES system (10/20/40ft BESS container)** is designed with discharge rate no more than 0.5C.

E) Energy efficiency of the BESS is no less than 70% in the warranty period. When the ambient temperature is higher than 45°C, the **PCS system will derate the output, linear derating from 45°C to 65°C.**



2. Limitations in the performance Guarantee

A) In the event the claimant fails to provide complete log file as required (the log could export from BESS PMS Monitor), it shall be deemed that any deviation inefficiency or capacity of the system is the result of customer's noncompliance with the user instruction or other technical conditions, and any repair or replacement of the system or its components shall be at claimant's expense.

B) The system needs to be stored in accordance with the temperature condition (-20°C ~ $+55^{\circ}\text{C}$, avoid direct sunlight). When the maximum storage period of the product exceeds three (3) months, the capacity degradation (0.4% per month) shall be accepted. If the system is not stored in the environment specified above, or customer fails to prove the product are stored accordingly, additional capacity degradation shall be accepted. When the product is idle, the charging and discharging cycle shall be carried out every three months, otherwise the capacity may be further attenuated.

C) When the system is used outside the specified ambient temperature range (0°C ~ 45°C), it will seriously affect the battery life and accelerate energy degradation. The customer shall bear the corresponding consequences.

D) To lodge a claim for the battery, SCU may require information which may include, not limited to: proof of purchase and/or delivery, installation, serial and model numbers, effective failure description including images, videos, and other information to effectively demonstrate that the product is defective or the battery capacity is lower than that specified in the Battery Capacity Degradation Profile.