



Test Report

No.: GDGT-H/R-2024-12088

Applicant: BSL NEW ENERGY TECHNOLOGY CO., LTD

Applicant Address: 8F,Building D-2-3,1F, Building D-2-3, 8F, Building D-2-2,
No. 6, Xingyuan North Road, Starting AreaChina-Korea Huizhou Industrial Park,
Zhongkai District, Huizhou City, Guangdong, P.R. China.

Laboratory: Guangdong Sushi Guangbo Testing Technology Co., Ltd.

Laboratory Address: Building No.4/5, Modern Enterprise Accelerator, No.24
Industrial East Road, Songshan Lake, Dongguan, P.R. China.

Date of test: Dec.12.2024 ~ Jan.4.2025





Terms and Conditions

1、The company is entrusted by the principal to undertake the organization and implementation of the test, and issue the test report according to the test basis and the requirements of the accreditation standards and the reasonable needs of the principal.

2、The test results presented in the report apply only to tested sample. The customer provides their own information, the sample, and the sample information. Thus, company assumes no responsibility for representativeness, authenticity of the sample and validity and accuracy of the information.

3、Any report having not been signed by the person who prepared, reviewer of authorized approver, or having been altered without authorization, or without both the Dedicated Report Seal and its across-page seal is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of company. Any copy of reports without the Dedicated Report Seal is deemed to be invalid.

4、Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The applicant assumes the responsibility of providing the revised version to any interested party who uses them.

5、The relevant content and effectiveness is subject to the electronic version of the original report which was only applied for. When an electronic report and a paper report are applied for at the same time, the electronic report is only a copy of the paper report, and the relevant content and effectiveness is subject to the paper report.

6、If there is any objection to the test report, it should be submitted to the testing unit within 15 days after receipt of the report, otherwise it will not be accepted after expiration.

7、Disclaimer

①When the customer knows that the test sample deviates from the specified conditions and insists on conducting the test, the company will describe the deviation of the test sample in a special font in the report, and explain that the deviation is the customer's requirement, and will not bear any consequences and responsibilities arising therefrom.

②The company is responsible for all information in the report, except information provided by customers. The use of data and related information provided by customers in the report will be marked as provided by customers, and the Company will not assume any consequences and responsibilities arising therefrom, including the validity of the results.



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Test Report

i. Product information

Product name: Lithium-ion Battery Energy Storage Cabinet;

Product model: ESS-BATT-160C、ESS-BATT-176C、ESS-BATT-192C、ESS-BATT-208C、ESS-BATT-225C、ESS-BATT-241C

Product No.: GS202412088-1#;

Product quantity: 1PC;

Receipt of sample: Sent by the applicant;

Test sample arrived: Dec.11,2024;

Sample description: At room temperature, the test sample was visually inspected and the appearance was intact.

Note: Test sample information is provided by the customer.

ii. Test results summary

Table 1 Test results summary

Test Items	Test Results
Dust proof IP5X test	After the test, the appearance of the sample is normal and there is no damage. The metal probe with a diameter of 1mm does not enter the shell with a thrust of 1N, and there is no dust entry in the internal inspection.
Waterproof IPX5 test	After the test, the appearance of the sample is normal, and there is no water inflow in the internal inspection.

Edited: Fu Rong Liu Reviewed: Chao Liu Approved: Mao Ling Zhu

Issue Date: Mar.12,2025



1 Atmospheric conditions of the test site

Temperature: 19°C~27°C.

Relative Humidity: 47%RH~59%RH.

2 Test site

Building No.4, Modern Enterprise Accelerator, No.24 Industrial East Road, Songshan Lake.

Building No.5, Modern Enterprise Accelerator, No.24 Industrial East Road, Songshan Lake

3 Referenced regulations and test sequence

3.1 Referenced regulations

IEC 60529:1989+AMD1:1999+AMD2:2013 CSV/COR2:2015 “Degrees of protection provided by enclosures (IP code)”.

The specific technical requirements shall be in accordance with the GDGT/CXJ008.02-2024-12088 “Testing Application Form”.

3.2 Sequence of test

Table 2 Sequence of test

Test item	Product No.	Date of test	Test site
Dust proof IP5X test	GS202412088-1#	2024.12.12	Building4.
Waterproof IPX5 test	GS202412088-1#	2025.01.04	Building4.

4 Test personnel(s)

Table 3 Test personnel list

Test item	Test personnel
Dust proof IP5X test	Furong Liu
Waterproof IPX5 test	Furong Liu

5 Test equipment(s)

Table 4 Test equipment list

Equipment name	Equipment model	Serial No.	Validity period
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Sand and dust test chamber	YJ-IP56X	GDGS036	2025.09.13
Digital display push-pull meter	HP-1K	GDGY007	2025.09.13
The D probe is used	OJN-9408D	GDGY075	2025.02.19
Rain test device	YJ-IPX1-8	GDGS035	2025.06.20

6 Test item, conditions, processes, conclusions and figures

6.1 Protection level –IP5X

6.1.1 Test conditions

1. Prevent contact with dangerous parts: the metal probe with a diameter of 1mm applies 1N thrust and shall not enter the shell;
2. Prevent solid foreign bodies:
3. Test dust: talc powder;
4. Test time: 8 hours;
5. No negative pressure

6.1.2 Test processes

1. Before the test, visually inspect the appearance of the sample and take photos to record.;
2. Carry out dust-proof IP5X test according to the conditions and sequence in 6.1.1.;
3. 1. After the test, visually inspect the appearance and interior of the sample, and take photos to record.

6.1.3 Test conclusions

1. All the test samples were completed in accordance with the conditions, After the test, the appearance of the sample is normal and there is no damage. The metal probe with a diameter of 1mm does not enter the shell with a thrust of 1N, and there is no dust entry in the internal inspection.

6.1.4 Test figures



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Fig 1 Before the test



Fig 2 After the test



Fig 3 Before the test



Fig 4 After the test



Fig 5 Before the test



Fig 6 After the test



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Fig 7 Before the test



Fig 8 After the test

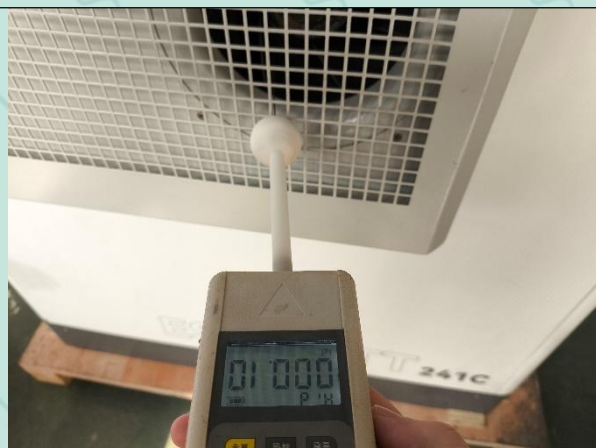


Fig 9 Testing of hazardous parts against contact



Fig 10 Testing of hazardous parts against contact



Fig 11 In the experiment



Fig 12 Internal inspection after test



Fig 13 Internal inspection after test



Fig 14 Internal inspection after test



Fig 15 Internal inspection after test



Fig 16 Internal inspection after test

6.2 Waterproof test -IPX5

6.2.1 Test conditions

1. Inner diameter of nozzle: 6.3mm;
2. Water flow: 12.5L/min;
3. Distance from nozzle to sample surface: 2.5m~3m;
4. Test time: sample surface 1m²/min, at least 3min;
5. Qualified judgment: After the test, there is no water inside the sample or the water is not enough to affect the normal operation and safety of the equipment, that is, qualified.

6.2.2 Test processes

1. Inspect the appearance of the sample before the test;
2. Waterproof test -IPX5;
3. After the test, the sample shall be inspected externally and internally.

6.2.3 Test conclusions

1. All the test samples were completed in accordance with the conditions, After the test,



the appearance of the sample is normal, and there is no water inflow in the internal inspection.

6.2.4 Test figures



Fig 17 After the test



Fig 18 After the test



Fig 19 After the test



Fig 20 After the test



Fig 21 In test



Fig 22 In test



Fig 23 In test



Fig 24 In test



Fig 25 Internal inspection after test

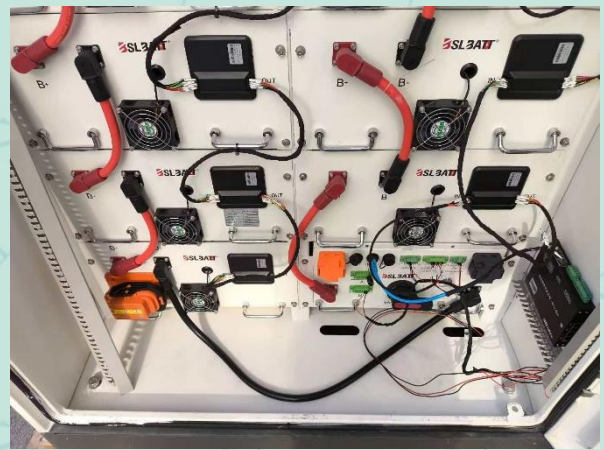


Fig 26 Internal inspection after test

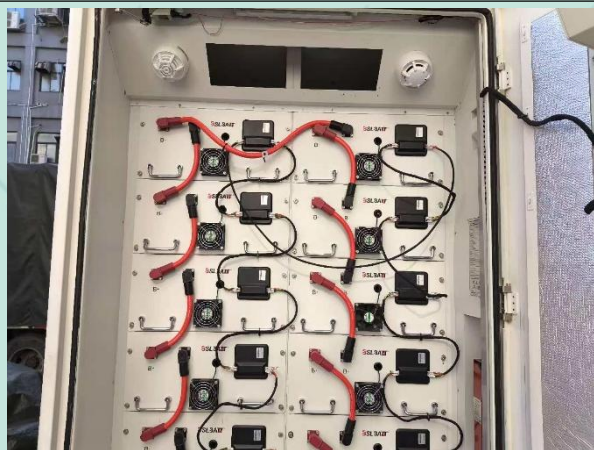


Fig 27 Internal inspection after test



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