

TEST REPORT

Report No.

HY202505108

Specimen Description

Series Stacking LFP Li-ion Battery System

Model/Type

HVS 2, HVS 3, HVS 4, HVS 5, HVS 6, HVS 7

Application

BSL NEW ENERGY TECHNOLOGY CO., LTD

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TEST REPORT

Application : BSL NEW ENERGY TECHNOLOGY CO., LTD

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Xingyuan North Road. Starting AreaChina-Korea Huizhou
Industrial Park, Zhongkai District, Huizhou City, Guangdong,
P.R.China

Specimen Description : Series Stacking LFP Li-ion Battery System

Trademark : N/A

Model/Type : HVS 2, HVS 3, HVS 4, HVS 5, HVS 6, HVS 7

Quantity : 1pcs

Serial/Specimen No. : PO202505111-1#

Specimen Source : Submitted by application

Received Date : May 27, 2025

Processed Date : Jun. 03, 2025

Test Criteria : IEC 60529:2013

Tested:

Linghan Wu

Date:

Jun.03, 2025

Checked:

Eleven Wang

Date:

Jun.03, 2025

Approved:

July Liu

Date:

Jun.03, 2025

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1、 SUMMARY

Table 1 Test overview

Test Items	Test Status	Serial/Specimen No.	Test Conclusion	Processed Date
IP65 test	Unpackaged	PO202505111-1#	Pass	Jun. 02, 2025~ Jun. 03, 2025

2、 AMBIENT CONDITION

Ambient Temperature (°C): 23~25

Relative Humidity (%): 58~62

Atmospheric Pressure (kPa) :100~101

3、 INITIAL CHECK

Before the test, the specimen exhibited no structural damage.

4、 IP65 TEST

4.1 Test requirement

Test criteria: IEC 60529:2013

Specimen No.: PO202505111-1#

1) Degrees of protection against access to hazardous parts indicated by the first characteristic numeral

The first characteristic numeral 6

The test wire of 1.0mm Φ shall not penetrate and adequate clearance shall be kept.

2) Degrees of protection against solid foreign objects indicated by the first characteristic numeral

The first characteristic numeral 6

The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. The object of the test is to draw into the enclosure, by means of depression, a volume of air 80 times the volume of the sample enclosure tested without exceeding the extraction rate of 60 volumes per hour. In no event shall the depression exceed 2kPa, the test is continued until 80 volumes have been drawn through, or a period of 8h has elapsed.

3) Degrees of protection against water indicated by the second characteristic numeral

The second characteristic numeral 5

The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle. The conditions to be observed are as follows:

a) internal diameter of the nozzle: 6.3 mm;

- b) delivery rate: 12.5 l/min $\pm$ 5%;
- c) water pressure: to be adjusted to achieve the specified delivery rate;
- d) core of the substantial stream: circle of approximately 40mm diameter at 2.5m distance from nozzle;
- e) distance from nozzle to enclosure surface: between 2.5m and 3m.
- f) test duration: 1min/m².

4.2 Acceptance Criteria

- 1) Adequate clearance shall be kept between the access probe and hazardous parts.
- 2) After the test, no dust should enter the specimen.
- 3) If any water has entered, it shall be not sufficient to interfere with the correct operation of the equipment or impair safety.

4.3 Test Results

- 1) Adequate clearance was kept between the access probe and hazardous parts.
- 2) After the test, no dust entered into the specimen.
- 3) After the test ,the specimen exhibited no ingress of water.

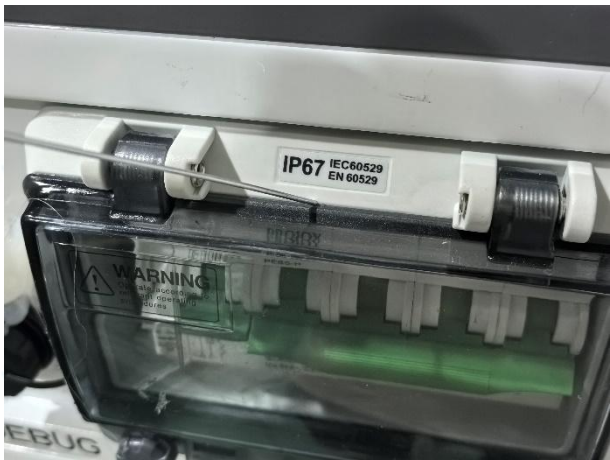
4.4 Test Conclusion

Pass

4.5 Test Photos



No.4.5-1 Inspection before test



No.4.5-2 Inspection before test
(Protection against access to hazardous parts)



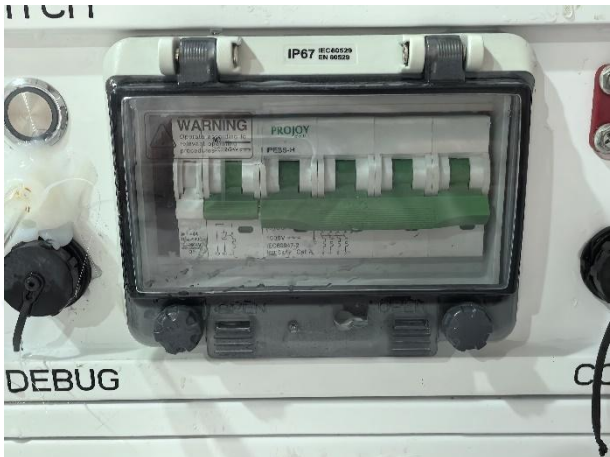
No.4.5-3 IP6X test
(Protection against solid foreign objects)



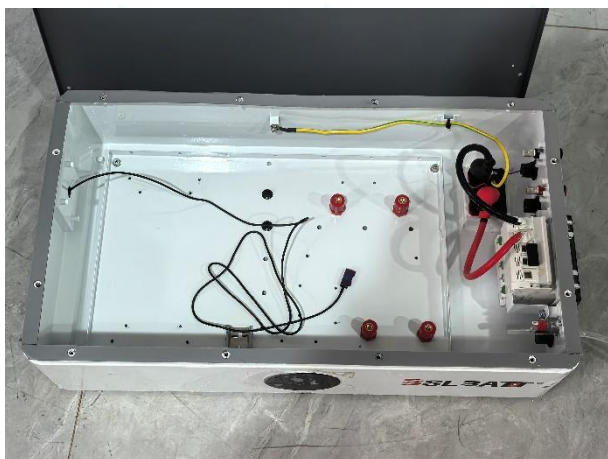
No.4.5-4 IPX5 test
(Protection against water)



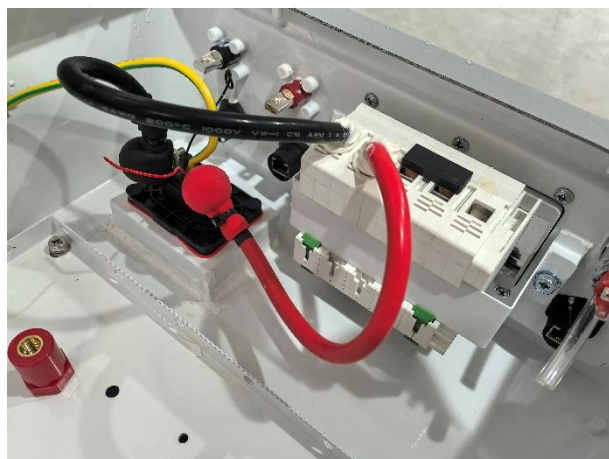
No.4.5-5 Inspection after test



No.4.5-6 Inspection after test



No.4.5-7 Inspection after test



No.4.5-8 Inspection after test



No.4.5-9 Inspection after test



No.4.5-10 Inspection after test

APPENDIX A EQUIPMENT USED FOR TEST**Table 2 Equipment used**

No.	Equipment	Equipment No.	Model/Type	Manufacturer	Due to
1	Work-in dust chamber	SB2019017	GK-SC14000	Guang Bo	Jun. 13, 2025
2	Test tool D	SB2019029	AUTO-D	AUTO	Apr. 02, 2026
3	Water resistant test system	SB2019018	AUTO-IP*3/4/4k/5/6	AUTO	Jun. 13, 2025

APPENDIX B IMPORTANT STATEMENTS

STATEMENTS

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