

Test Report

Report NO.: SUER250500068471

Release date : 2025-06-05

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Applicant: Shanghai PYTES Energy Co., Ltd.
No.3492 Jinqian Road, Fengxian District, Shanghai, China

Manufacturer: Shanghai PYTES Energy Co., Ltd.
No.3492 Jinqian Road, Fengxian District, Shanghai, China

Product Name: Rechargeable Li-ion Battery

Product Model No: V10α, V12α

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Laboratory name.....: SGS-CSTC Standards Technical Services Co.,Ltd. Suzhou Branch

Laboratory address: No.10, Weiye Road, Kunshan Development Zone, Suzhou, Jiangsu, China

Sample receipt date.....: 2024-11-28

Date of Test: 2024-11-29 to 2024-12-02

Conclusion: For further details, please refer to the following page(s)

Remark /Note: 1) The test results presented in this report relate only to the object tested.
2) The report shall not be reproduced except in full, without approval of the laboratory.
3) The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc... and just for client internal reference.

Tested by:

Leo Li

Leo Li

Approved by:

Frank Fang

Frank Fang



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Summary of Results

No	Test Item	Test Standard	Conclusion
1	IP6X Test	IEC 60529:1989+A1:1999+A2:2013 Degrees of protection provided by enclosures (IP Code)	Pass
2	IPX5 Test	IEC 60529:1989+A1:1999+A2:2013 Degrees of protection provided by enclosures (IP Code)	Pass

Note: Pass: Meet the requirements;

Fail: Does not meet the requirements;

/: Not apply to the judgment.

Test site:

No.236 CaoFeng Rd.,Xukou Town, Wuzhong District, Suzhou, Jiangsu

This report was updated by the Report No.: SUER241100132371, the additional model was added upon the client's requirement: V12α, the addresses of applicant and manufacturer were changed to "No.3492 Jinqian Road, Fengxian District, Shanghai, China" upon the client's requirement.



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1. Test Item: IP6X Test

Product Description: Rechargeable Li-ion Battery

Lab environmental Condition: Temperature: (15~35)°C; Relative Humidity: (25~75)%RH; Atmos: (86~106)kPa.

Reference standard: IEC 60529:1989+A1:1999+A2:2013 Degrees of protection provided by enclosures (IP Code)

Test condition:

IP6X(Against ingress of solid foreign objects): The tested shell shall be put into the test box according to the normal working position. The pressure inside the shell shall be kept below atmospheric pressure with a vacuum pump, which shall not exceed 40 times the shell volume per hour. In any case, the differential pressure shall not exceed 2kPa. The amount of talcum powder shall be 2kg/m³. The number of times of use shall not exceed 20. The test time shall be 8h.

IP6X(Against access to hazardous parts): The test tool with a diameter of 1mm shall not enter the shell, and the test force shall be 1N ± 0.1N.

Test acceptance requirements:

After test, there should be no dust in the shell.

The metal wire with a diameter of 1mm should fail to enter the shell.

Test result:

Sample Number	Test Result
SUER2411001323AT M1	After test, no dust was found in the shell; The metal wire with a diameter of 1mm failed to enter the shell.

Conclusion: Pass

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Photographs of the Test Configuration

	
Sample setup	After test
	/
1mm test needle fails to enter the shell	/



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2. Test Item: IPX5 Test

Product Description: Rechargeable Li-ion Battery

Lab environmental Condition: Temperature: (15~35)°C; Relative Humidity: (25~75)%RH; Atmos: (86~106)kPa.

Reference standard: IEC 60529:1989+A1:1999+A2:2013 Degrees of protection provided by enclosures (IP Code)

Test condition:

Use nozzle with diameter of 6.3 mm and distance of 2.5m~3m. The control water flow is 12.5L/min.

Spray water in all directions of the sample for 1min/m2, at least 3min.

Test acceptance requirements:

After test, there should be no obvious water stain inside.

Test result:

Sample Number	Test Result
SUER2411001323AT M1	After test, there was no obvious water stain inside.

Conclusion: Pass

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Photographs of the Test Configuration

	/
During test	/



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Testing Instrument and Equipment

Equipment	Model	Equipment No.	Calibration Date	Next Calibration Date
Walk in dust chamber	SC-60	ITCK170401	/	2025-01-18
Push pull meter	50N	ITCK170201	/	2025-01-15
Test needle	1mm	ITCE220416	/	2025-01-15
Hose spray test device	RPS	ITCK170210	/	2025-01-15
A stopwatch	PC894	ITCK190912	/	2025-01-22

-----End of Report-----