



Test Report

Report NO.: SUER251000136671

Release date : 2025-11-05

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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: V16

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

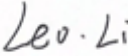
Sample receipt date.....: 2025-10-15

Date of Test: 2025-10-17

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

Approved by:



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	IPX6 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

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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 solid foreign objects indicated): Place the sample in the chamber according to the normal placement. The dust used was talc powder, and the dosage of talc powder was 2kg/m³. The sample is pumped at an pumping rate of not more than 40 times the shell volume for 8 hours, and the pressure difference in the sample shell is maintained not more than 2kPa.

IP6X(Against access to hazardous parts): The test wire of 1.0 mm ϕ shall not penetrate and adequate clearance shall be kept, test force is 1N \pm 0.1N.

Test acceptance requirements:



After IP6X test, there should no deposit of dust is observable inside the enclosure, test needle with a diameter of 1 millimeter should not enter the shell.

Test result:

Sample Number	Test Result
SUER2510001366AT M1	After test, the test needle with diameter of 1mm failed to enter the upper shell of the sample, there is no obvious dust entering the sample shell.

Conclusion: Pass

Photographs of the Test Configuration

	
Sample setup	1mm test needle fails to enter the shell

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2. Test Item: IPX6 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:

Internal diameter of the nozzle: 12.5mm;

Delivery rate: 100L/min±5 %;

Minimum test duration: 3 min;

Distance from nozzle to enclosure surface: between 2.5m and 3m.

Test acceptance requirements:


After test, there should be no obvious water ingress inside the sample.

Test result:

Sample Number	Test Result
SUER2510001366AT M2	After test, there was no obvious water stain inside.

Conclusion: Pass

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	2025-01-12	2026-01-11
Push-pull gauge	50N	ITCK170201	2025-01-06	2026-01-05
Rigid steel	1mm	ITCE220416	2025-01-15	2026-01-14
Hose spray test device	RPS	ITCK170210	2025-01-07	2026-01-06
Stopwatch	LW-1032	ITCK220502	2025-01-07	2026-01-06
Steel tape measure	5m	ITCK170503	2025-01-18	2026-01-17

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