

Test Report

Report No.: SUER230900061471 Release date.....: 2023-10-12

Applicant's name: Shanghai PYTES Energy Co., Ltd.
No. 3492 Jinqian Road, Qingcun Town, Fengxian District, Shanghai, China

Laboratory name and address.....: SGS-CSTC Standards Technical Services Co.,Ltd. Suzhou Branch
No.10, Weiye Road, Kunshan Development Zone, Suzhou, Jiangsu, China

Product Description.....: V-BOX-OC

Supplier Model No: V-BOX-OC

S/N No.....: -

Sample status: Good



Sample receipt date: 2023-09-27 No. of samples....: 1

Date of Test: 2023-09-28 to 2023-09-29

Test Standard.....: IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code)

Conclusion: See following pages

Remark /Note: 1) The test results presented in this report relate only to the object tested.
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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:

Charlie Xia

Charlie Xia

Approved by:

Frank Fang

Frank Fang

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Summary of Results

No	Test Item	Reference Standard	Result	Sample number
1*	IP5X dustproof test	IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code)	Pass	1#
2*	IPX5 waterproof test	IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code)	Pass	1#

Note: Pass: Meet the requirements;

Fail: Does not meet the requirements;

/: Not apply to the judgment.

Item 1*~2* test site: No.8, Xin'anjiang East Road, High-tech Industrial, Development Zone, Changshu, Jiangsu, China

1. Test Item: IP5X Dustproof Test

Environmental requirement:

Ambient Temperature: 15~35 °C; Relative Humidity: 25~75 %RH; Atmos: 86~106 kPa.

Reference standard:

IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of protection provided by enclosures (IP Code)

Test condition:

Simulated dust	Talcum powder
Dust Usage	2 kg/m ³
Pumping	No
Test duration	8h

Test acceptance requirements:

After test, there should be no dust inside.

Test result:




Meet the judgment requirements.

Sample Number	Test Result
1#	After test, there is no dust inside.

Conclusion: Pass

The sample meets the test requirements.

Photographs of the Test Configuration

Before Test	After Test
	
During Test	After Test-Close-up
	

2. Test Item: IPX5 Waterproof Test

Environmental requirement:

Ambient Temperature: 15~35 °C; Relative Humidity: 25~75 %RH; Atmos: 86~106 kPa.

Reference standard:

IEC 60529:1989/AMD2:2013/COR1:2019 Degrees of Protection Provided by Enclosures (IP Code)

Test condition:

Water Flow	12.5(1±5%) L/min
Nozzle diameter	6.3 mm
Test Distance	2.5m~3m
Test duration	1 min per square meter calculated according to the surface of the sample shell, test for at least 3 min

Test acceptance requirements:

After test, there should be no water inside.

Test result:



Meet the judgment requirements.

Sample Number	Test Result
1#	After test, there is no water inside.

Conclusion: Pass

The sample meets the test requirements.

Photographs of the Test Configuration

Before Test	After Test
	



Testing Instrument and Equipment

Equipment	Equipment No.	Calibration Date	Next Calibration Date
Walk-in Dustproof Test Chamber	IP-HK00-16	2023-05-29	2024-05-28
Waterproof Test Machine	IP-XK00-03	2022-12-29	2023-12-28
Steel Tape	JSDYQ-197	2022-10-28	2024-10-27
Thermometer	JSDYQ-108	2022-06-20	2024-06-19

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