



中国认可
国际互认
检测
CNAS L3150



TEST REPORT

Product Name : Solar Hybrid Inverter

Model Number : (See next page)

Prepared for : SRNE Solar Co.,Ltd
Address : 4-5F,Building13A,Taihua Wutong Industrial Park ,Gushu
Development Zone ,Hangcheng Street,Baoan, Shenzhen,
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Report Number : EDG2409270059R00101R M1
Date(s) of Tests : 2024.10.01 to 2024.10.02
Date of Issue : 2025.02.20



Applicant : SRNE Solar Co.,Ltd
Address : 4-5F,Building13A,Taihua Wutong Industrial Park ,Gushu Development Zone ,Hangcheng Street,Baoan, Shenzhen, China PR
Sample Name : Solar Hybrid Inverter
Model Number : HESP48120SH3, HESP4880SH3, HESP48100SH3
Sample Quantity : 1PCS
Date of Received : 2024.10.01

Test Summary

No.	Test Item	Test Standard	Test Conclusion
1	IP6X	IEC 60529:1989/AMD2:2013/COR1:2019	Pass
2	IPX5	IEC 60529:1989/AMD2:2013/COR1:2019	Pass
Remark: Pass: Test item meet the requirement; Fail: Test item does not meet the requirement; N/A: Test case does not apply to the test object, or provide test results only.			

Signed for and on behalf of
EMTEK (Dongguan) Co., Ltd.

Inspected by: keel.shu
Inspected engineer

Reviewed by: lcove.xhang
Reviewed director

Approved by: Li Lijuan
Authorized signatory

1. Test Item: IP6X

1.1 Sample No.: E2409270059-01

1.2 Test Equipment(s):

Name	Model	Serial No.	Valid Date to
Sand and dust test chamber	GT1321C	E-R-034	2025.03.08
Test probe	GT7003	E-R-164	2025.05.22

1.3 Laboratory Conditions: Temperature: 26.3℃; Humidity: 57.1%RH

1.4 Test Standard: IEC 60529:1989/AMD2:2013/COR1:2019

1.5 Test Conditions:

- (1) Use a steel probe with a diameter of $1.0^{+0.05}_0$ mm without burr on the edge to detect the gap of the sample, and the test force is $1N \pm 10\%N$.
- (2) The test is started by placing the sample in a chamber containing 2kg of talcum powder per cubic metre. During the test the sample is kept under vacuum with a maximum differential pressure of 2kPa while the air extraction speed is less than 40 times the volume of the shell per hour. The test lasts for 8 hours.





1.6 Judge Criteria:

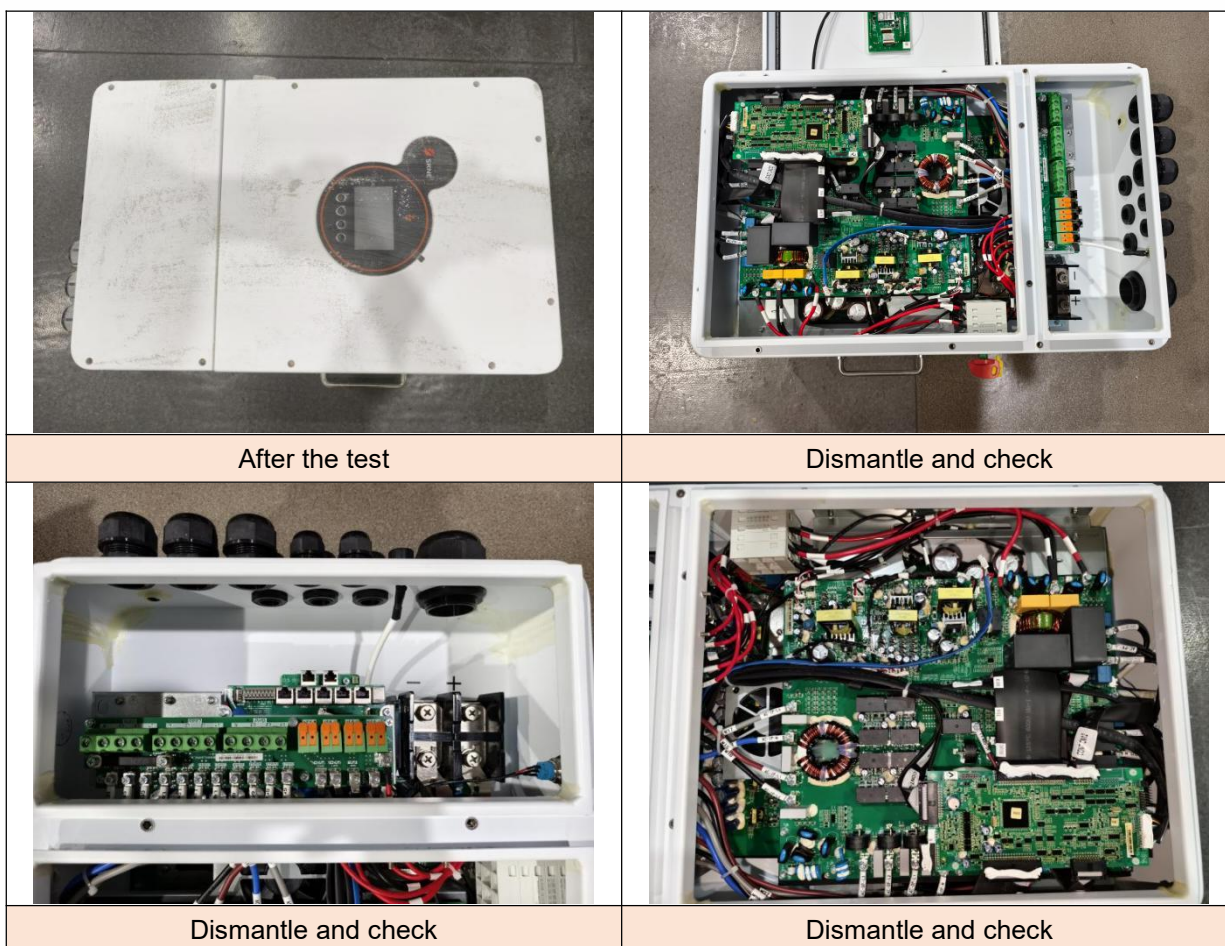
The test probe should not penetrate into the sample. After the test, the interior of the sample should be free of dust.

1.7 Test Result(s):

Sample No.	Test Result	Test Conclusion
E2409270059-01	The test probe did not penetrate into the sample. After the test, the interior of the sample was dust free.	Pass

1.8 Test Photo(s)

	
Before the test	Before the test
	
During testing	During testing
	
During testing	During testing



2. Test Item: IPX5

2.1 Sample No.: E2409270059-01

2.2 Test Equipment(s):

Name	Model	Serial No.	Valid Date to
IPX1-IPX7 waterproof rating test device	GT1310B	E-R-033	2025.03.08

2.3 Laboratory Conditions: Temperature: 26.3℃; Humidity: 57.1%RH

2.4 Test Standard: IEC 60529:1989/AMD2:2013/COR1:2019

2.5 Test Conditions:

Nozzle inner diameter: 6.3mm

Water flow rate: 12.5L/min

Test time: 3min

Distance from nozzle to shell surface: 2.5m~3m

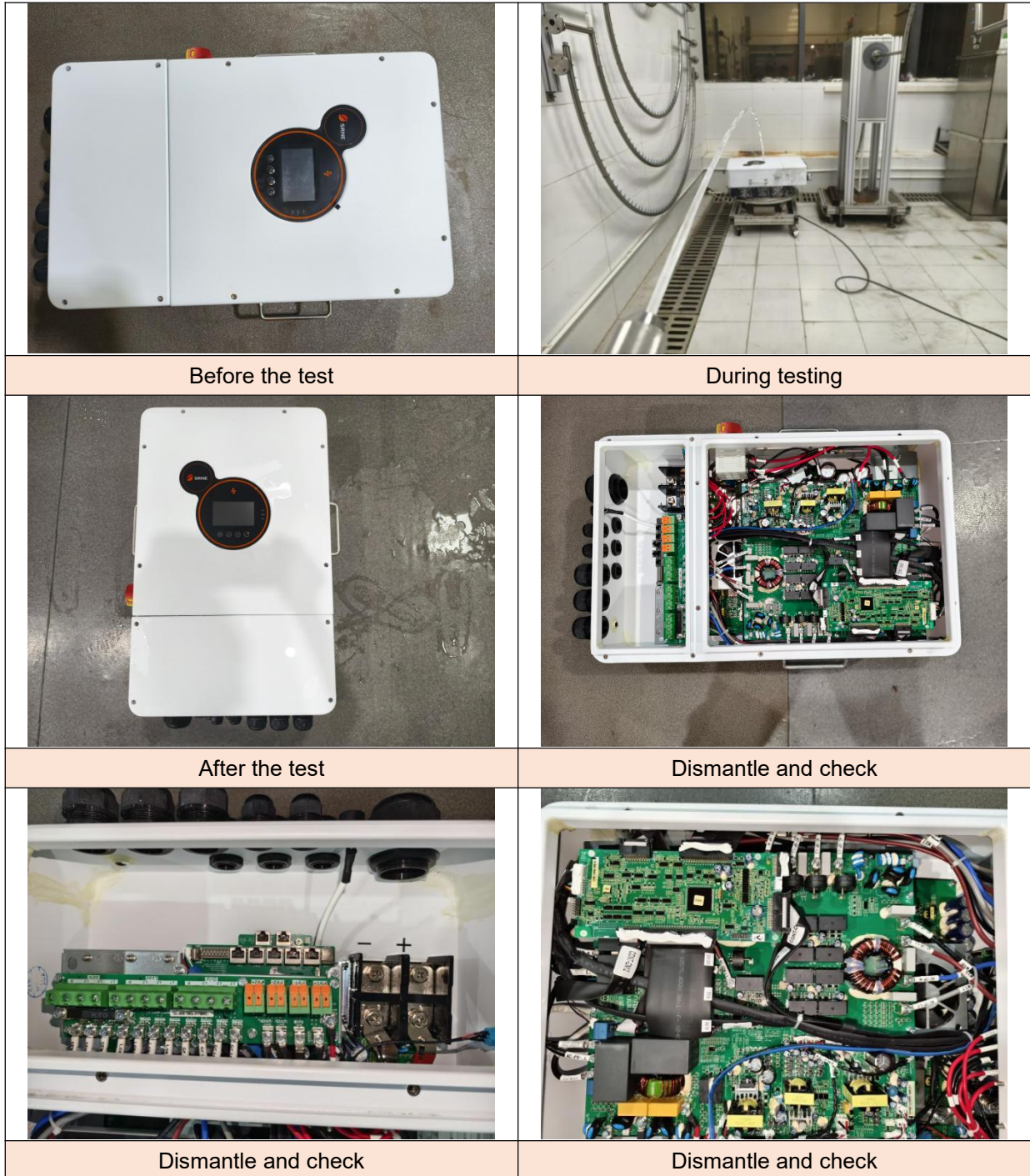
2.6 Judge Criteria:

After the test, a small amount of water is allowed to enter the interior of the sample, but it does not accumulate and cannot enter the live parts.

2.7 Test Result(s):

Sample No.	Test Result	Test Conclusion
E2409270059-01	No water entered inside the sample after the test.	Pass

2.8 Test Photo(s)



Note: According to customer requirements, the differences between the series models in the report are only in output power and input power, and other aspects such as appearance, topology, PCB board, and software are completely identical.

*** End of Report ***

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