



Guangdong Sushi Guangbo Testing Technology Co., Ltd.



中国认可
检测
TESTING
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Test Report

No.: GDGT-H/R-2021-0966

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Date of test: Sep. 18, 2021 ~ Sep. 19, 2021





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Terms and Conditions	<ol style="list-style-type: none">1.The report must not be partly copied without the written approval.2.The results are valid only to the sample submitted in the test.3.The report must be invalid without the test seal of the Lab.4.The report is invalid without the signature of editor, reviewer and approver.5.The sample must be retrieved within 1 month after completion; Otherwise the lab has right to destroy it.6.The report is invalid when altered.7.Building No.4: Building No.4, Modern Enterprise Accelerator, No.24 Industrial East Road, Songshan Lake, Dongguan, P.R. China. Building No.5: Building No.5, Modern Enterprise Accelerator, No.24 Industrial East Road, Songshan Lake, Dongguan, P.R. China.
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Test Report

i. Test sample

Table 1 Test sample

Item	Product name	Product model	Product No.	QTY
1	Solar Grid-tied Inverter	SOFAR 50KTLX-G3-HV; (SOFAR 25KTLX-G3, SOFAR 30KTLX-G3, SOFAR 30KTLX-G3-A, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3, SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, SOFAR 50KTLX-G3, SOFAR 40KTLX-G3-HV, SOFAR 50KTLX-G3-HV) Note: These exterior products are the same, the difference is only the voltage parameters.	2021-0966-01	1

The above models are provided by the customer.

Product size(mm):585*480*220;

Product weight(kg): 37;

Receipt of sample: Sent by the applicant;

Test sample arrived: Sep.17, 2021;

Sample description: There is no visible damage of specimens judging through visual inspection before formal test at room temperature.

ii. Test results summary

Table 2 Test results summary

Test Items	Test Results	Test conclusion	Address
Dustproof test –IP6X	After the test, there is no dust inside.	Pass	Building No.4
Water proof test-IPX5	After the test, there is no water inside.	Pass	Building No.4

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1 Laboratory atmospheric conditions

Temperature: 28°C ~ 31°C.

Relative Humidity: 49%RH ~ 56%RH.

2 Referenced regulations and test sequence

2.1 Referenced regulations

GDGT/CXJ008.02-2021-0966 “Testing Application Form”.

IEC 60529:2013 “Degrees of protection provided by enclosures (IP Code)”.

2.2 Sequence of test

Water proof test-IP6X→Dustproof test –IPX5.

3 Test equipment(s)

Table 3 Test equipment list

Equipment name	Equipment model	Serial No.	QTY	Validity period
Rain test device	YJ-IPX1-8	GDGS035	1	2021/12/11
Sand and dust test chamber	YJ-IP56X	GDGS036	1	2021/12/14

4 Test item, conditions, processes and conclusions

4.1 Dustproof test -IP6X

4.1.1 Test conditions

Dustproof test -IP6X:

1. Test dust type: Talcum powder;
2. Apply negative pressure;
3. With a maximum depression of 2 kPa;
4. The test time: 8h.

4.1.2 Test processes

1. Preliminary appearance and function inspection of the sample;
2. Dustproof test -IP6X;
3. Final appearance and function inspection of the sample;
4. Internal inspection after test.

4.1.3 Test conclusions

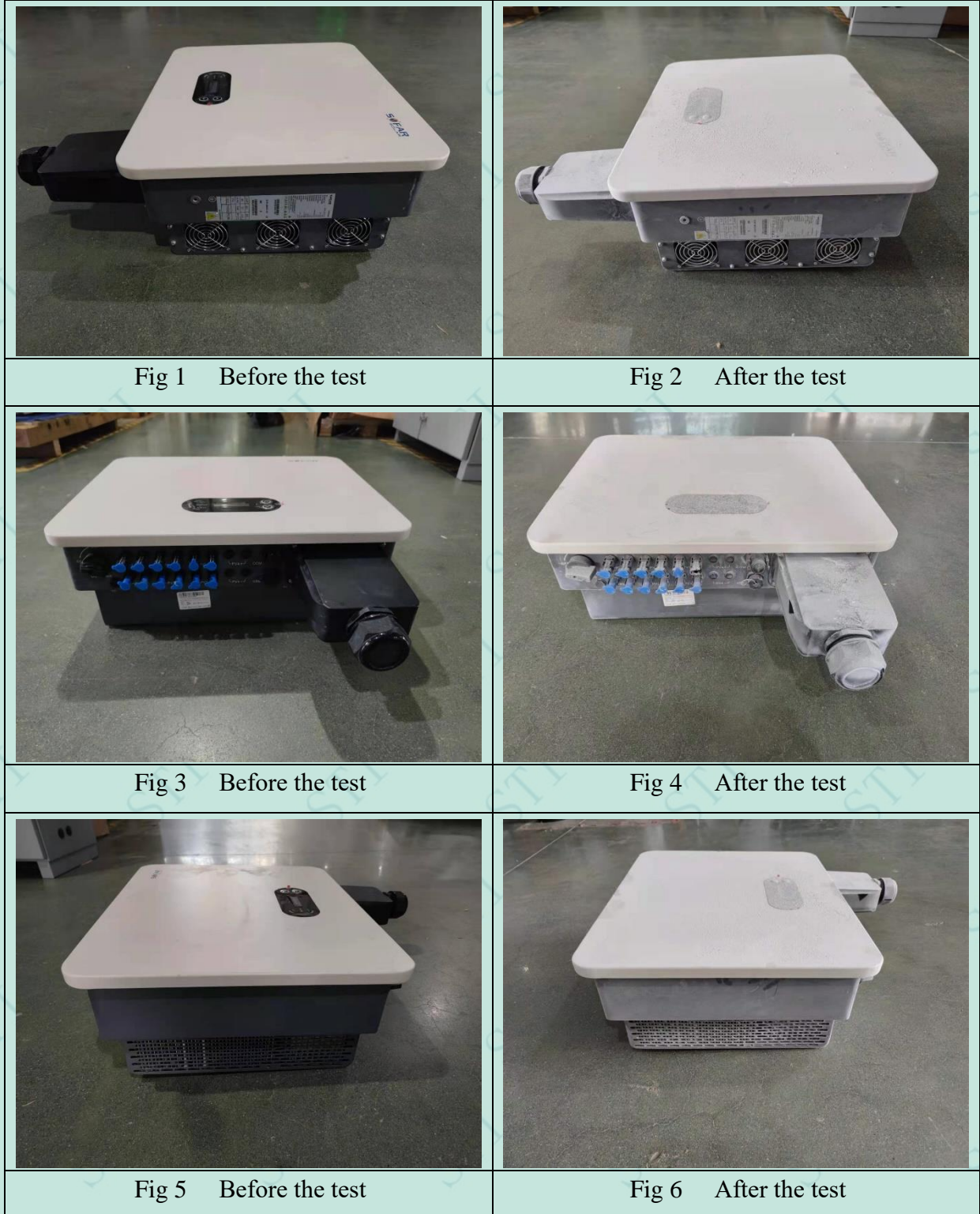
1. The method of this experiment is in accordance with the standard of the IEC 60529:2013 “Degrees of protection provided by enclosures (IP Code)”, the test sequence and level of the stress applied were consistent with GDGT/CXJ008.02-2021-0966 “Testing Application Form”.



This test is real and effective.

2. The sample was completed in accordance with the conditions, after the test, the appearance has no obvious change and there is no dust inside.

4.1.4 Test figures





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Fig 7 Before the test



Fig 8 After the test



Fig 9 During the test (start)



Fig 10 During the test (finish)



Fig 11 Internal inspection after the test

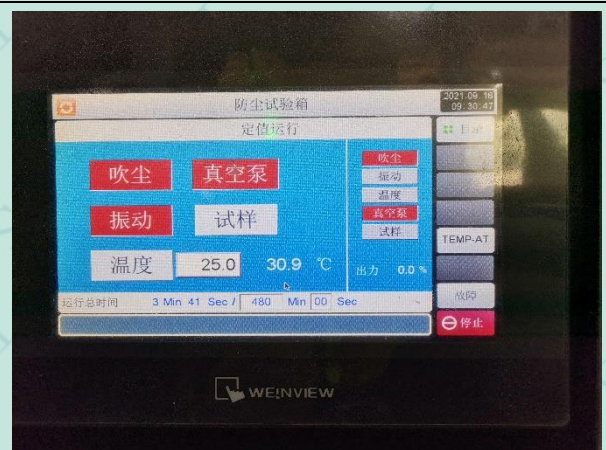


Fig 12 Testing interface



Fig 13 Test equipment

4.2 Water proof test-IPX5

4.2.1 Test conditions

1. Internal diameter of the nozzle: 6.3mm;
2. Water flow rate: 12.5 ± 0.625 L/min;
3. Minimum test duration: Spraying time per square meter of the shell surface: $1 \text{ m}^2 / \text{min}$, the minimum test time is 3min;
4. Distance from nozzle to enclosure surface: between 2.5m and 3m.

4.2.2 Test processes

1. Preliminary appearance and function inspection of the sample;
2. Water proof test-IPX5;
3. Final appearance and function inspection of the sample.

4.2.3 Test conclusions

1. The method of this experiment is in accordance with the standard of the IEC 60529:2013 “Degrees of protection provided by enclosures (IP Code)”, the test sequence and level of the stress applied were consistent with GDGT/CXJ008.02-2021-0966 “Testing Application Form”. This test is real and effective.

2. The test sample was completed in accordance with the conditions, after the test, the appearance has no obvious change and there is no water inside.



4.2.4 Test figures



Fig 14 Before the test



Fig 15 After the test



Fig 16 Before the test



Fig 17 After the test



Fig 18 Before the test



Fig 19 After the test



Fig 20 Before the test



Fig 21 After the test



Fig 22 During test



Fig 23 During test



Fig 24 During test



Fig 25 During test



Fig 26 During test



Fig 27 Testing interface



Fig 28 Water flow

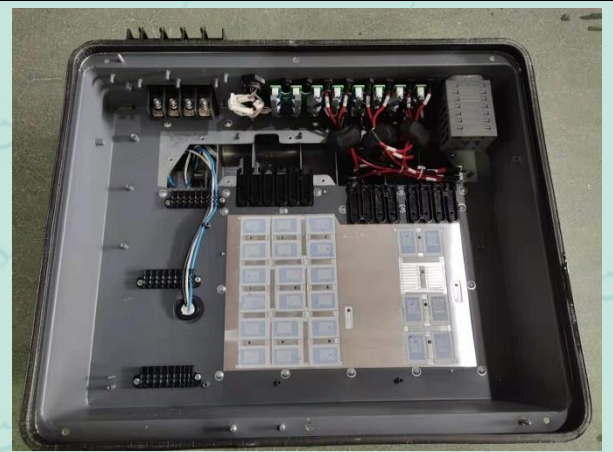


Fig 29 Internal inspection after the test



Fig 30 Test equipment

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