

TEST REPORT

Client Name	Shenzhen Kstar New Energy Company Limited.
Name of product	Hybrid Inverter
Manufacturer	Shenzhen Kstar New Energy Company Limited.
Model	KAC50DP
Test Sort	Commission Test



CCIC Southern Testing Co., Ltd.

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**CCIC Southern Testing Co., Ltd.****TEST REPORT**

Name of product	Hybrid Inverter		Trade mark	----	
Manufacturer	Shenzhen Kstar New Energy Company Limited.		Model	KAC50DP	
Client	Shenzhen Kstar New Energy Company Limited.		Sampling method	Sent by Client	
Sampler	----		Amount of samples	----	
Sampling place	----		Quantity of samples	1Pcs	
Production date	----	Sampling date	----	Application data	2023-2-10
Test date	2023-2-10~2023-2-14		Environment condition	15-35°C, 45-75% RH	
Sample description:					
One sample, in good condition before test. Number: 1#.					
Test item:					
IP6X Dust-proof test, IPX6 Water-proof test.					
Reference documents:					
IEC 60529:1989+A1:1999+A2:2013 Degrees of protection provided by enclosures (IP Code).					
Summary:					
According to the requirement, sample has been performed, IP6X Dust-proof test, IPX6 Water-proof test. The appearance and function of sample are both normal after test, refer to followed report for detail.					
Test conclusion:					
Pass.					
(Stamp)					
Tested by:	<u>Zhang Jun</u>	Inspected by:	<u>Gerry</u>	Approved by:	<u>Yang Fan</u>
	2023 Y 2 M 15 D		2023 Y 2 M 15 D		2023 Y 2 M 15 D



Test Result

No.	Test Item	Test Requirement	Test Result
			1#
1	IP6X Dust-proof test	Test items 1	Pass
2	IPX6 Water-proof test	Test items 2	Pass



Test Result

Test items 1: IP6X Dust-proof test

Environmental conditions:

Temperature: 25 °C , Humidity: 65%RH.

Reference documents:

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

Test arrangement:

In strict accordance with the experimental requirements of the layout.

Sample state:

Sample in good condition before test.

Test conditions:

Dust-proof Test Against ingress of solid foreign objects:

The dust box was used for testing, talcum powder was filtered by metal square hole sieve, and the diameter of metal wire was 50 μ m. The mesh size is 75 μ m. The dosage of talcum powder is 2kg per cubic meter of test chamber volume, and the use times are not more than 20 times.

The sample is placed in the test chamber, and the pressure in the sample shell is kept below the atmospheric pressure by vacuum pump. The blowholes shall be attached to the holes specially set for the test

Dust-proof Test Against access to hazardous parts with :

The access probe of 1.0mm ø shall not penetrate.

Test acceptance requirements:

After the dust-proof test, Normal operation.

Test conclusion:

Pass.

Test Result

Test items 1: IP6X Dust-proof test

Photo:





Test Result

Test items 2: IPX6 Water-proof test

Environmental conditions:

Temperature: 25°C, Humidity: 65 %RH.

Reference documents:

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

Test arrangement:

In strict accordance with the experimental requirements of the layout.

Sample state:

Sample in good condition before test.

Test conditions:

- a. Diameter of spout: 12.5mm;
- b. Flux: 100 ± 5 L/min;
- c. Hydraulic pressure: adjusted so as to have required flux.;
- d. Main stream: round stream with diameter of 120mm (away from the spout for 2.5m);
- e. Average test time: about 1min/m²;
- f. Total test time: 3min at least;
- g. Distance from the spout to the shell of EUT: 2.5~3m.

Test acceptance requirements:

After the water-proof test, no water founded in the EUT.

Test conclusion:

Pass.

Test Result

Test items 2: IPX6 Water-proof test

Photo:





List of Measurement Equipments Used

No.	Description	Model No.	Serial No.	Cal. Due to
1	Water proof testing machine	KXT302	A1109744	2023/4/18
2	Walk-in dust test chamber	JPY1410	A220603927	2023/6/12
3	IP test suite	IP1-6	A150802193	2023/11/17

Notes: The above instrument is within the metering test cycle.

*******END OF REPORT*******



STATEMENT

- 1. The test report is invalid without stamp of laboratory.**
- 2. The test report is invalid without signature of person(s) testing and authorizing.**
- 3. The test report is invalid if erased and corrected.**
- 4. Test results of the report is valid to the test samples if sampling by client.**
- 5. “☆” item to be outside the scope of authorized by CNAS.**
- 6. The report without the“CMA”stamp shall not have a certifying effect on the society.**
- 7. The test report shall not be reproduced except in full, without written approval of the laboratory.**
- 8. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.**

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