

TEST REPORT

REPORT NO.: 180703750RT

PRODUCT: SOLAR INVERTER

RECEIVED: 2018.07.20

TESTED: 2018.07.24~2018.07.25

ISSUED: 2018.07.26

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BUREAU
VERITAS

REPORT NO.:180703750RT

1 REGULATION

PRODUCT: SOLAR INVERTER

PART NO.: SUN2000-90KTL-H2;SUN2000-105KTL-H1;SUN2000-95KT
L-INH1;SUN2000-100KTL-H2

MANUFACTURER: /

APPLICANT: Huawei Technologies Co.,Ltd.

TESTED: 2018.07.24~2018.07.25

STANDARDS: IEC 60529:1989+A1:1999+A2:2013

The above equipment has been tested by Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd , Science City Branch, The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's Reliability characteristics under the conditions specified in this report.

PREPARED BY: Jet Ruan, **DATE:** 2018.8.1
(Jet Ruan/ Project Engineer)

VERIFIED BY: Aili Ming, **DATE:** 2018.8.1
(Aili Ming/ Project Manager)

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2 SUMMARY OF TEST RESULTS

TEST ITEMS	STANDARD	SAMPLE NO.	TEST RESULT
Protection of electrical equipment against foreign objects, water and access (IP65)	IEC 60529:1989+A1:1999 +A2:2013 clause 12.3.1, 13.6.2, 14.2.5	GZ180720/005-Q01N01GZ99	Pass

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	SOLAR INVERTER
PART NO.	SUN2000-90KTL-H2;SUN2000-105KTL-H1; SUN2000-95KTL-INH1;SUN2000-100KTL-H2

4 PROTECTION OF ELECTRICAL EQUIPMENT AGAINST FOREIGN OBJECTS, WATER AND ACCESS (IP65)

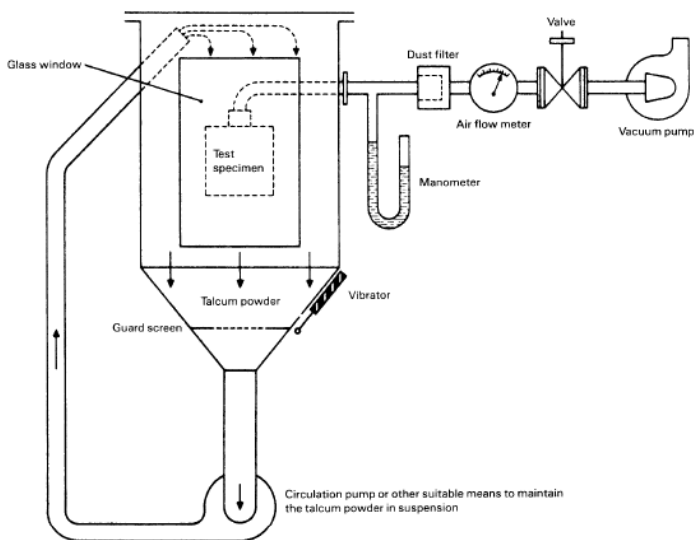
Reference to: IEC 60529:1989+A1:1999+A2:2013 clause 12.3.1, 13.6.2, 14.2.5.

4.1 TEST SAMPLE NO. AND TEST DATE

Sample No.	GZ180720/005-Q01N01GZ99
Sample quantity	1 PCS
Test date	2018.07.24~2018.07.25

4.2 TEST CONDITIONS

Clauses	Title	Test Conditions
12.3.1	Test for first characteristic numeral 6 for protection against access to hazardous parts	The protection is satisfactory if the rigid steel rod 1.0 ^{+0.05} mm diameter of the probe does not pass through any opening.
13.6.2	Test for first characteristic numeral 6 for protection against solid foreign objects	The test is made using a dust chamber incorporating the basic principles shown in below figure, whereby the power circulation pump to maintain the talcum powder in suspension in a closed test chamber, the amount of talcum powder to be used is 2 kg per cubic meter of the test chamber volume, the test period is 8 hours.

		
14.2.5	Test for second characteristic numeral 5 for protection against water	<p>Nozzles: 6.3 mm diameter, Distance: 2.5 m to 3 m, Water flow rate is 12.5 l/min \pm 5%, Duration: 1min/m², at least 3min Water pressure:30kPa</p>

4.3 TEST REQUIREMENTS

Clauses	Title	Test Requirements
12.3.1	Test for first characteristic numeral 6 for protection against access to hazardous parts	Test wire is not access to hazardous parts.
13.6.2	Test for first characteristic numeral 6 for protection against solid foreign objects	There is no dust be observed.
14.2.5	Test for second characteristic numeral 5 for protection against water	There is no water be observed.







4.4 TEST RESULT

Clauses	Title	Test Results
12.3.1	Test for first characteristic numeral 6 for protection against access to hazardous parts	Pass
13.6.2	Test for first characteristic numeral 6 for protection against solid foreign objects	Pass
14.2.5	Test for second characteristic numeral 5 for protection against water	Pass

4.5 TEST EQUIPMENTS

EQUIPMENT NAME	EQUIPMENT MODE	EQUIPMENT NO.	CALIBRATION DUE
Dust Resistance Test Chamber	CH-7139-CF-T	BVGZ-RT-0036	2019.06.13
IP1X dust test needle	IP1X	BVGZ-SAF-0102	2018.10.09
Spray test device	PS-2	BVGZ-SAF-0054	2019.03.18

4.6 TEST PHOTO

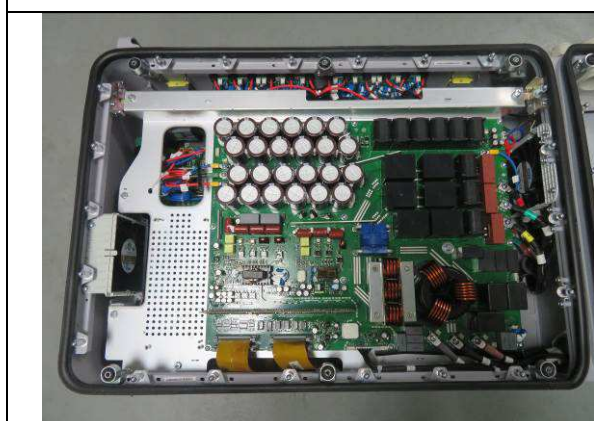
	
Sample--Before test	Test setup—IP6X sample in the chamber
	
Sample-- After IP6X test	During test--IPX5
	
During test--IPX5	Sample-- After IPX5 test



After test—IP65



After test—IP65



After test—IP65



After test—IP65

5 PHOTOGRAPHS OF DUT



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