



中国认可
国际互认
检测
TESTING
CNAS L0310



Salt Fog Test Report

Product Name: Smart PCS
Product Model: LUNA2000-200KTL-H0
Report Number: SYBH (H) 07750823-01

Reliability Laboratory of Huawei Technologies Co., Ltd.

No.2, New City Avenue, Songshan Lake Sci. & Tech. Industry Park, Dongguan, 523808, P.R.C
Tel: +86 769 23830808 Fax: +86 769 23837628

Notice

1. The laboratory has passed the accreditation by China National Accreditation Service for Conformity Assessment (CNAS). The accreditation number is L0310.
2. The laboratory has passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01 & 2174.02 & 2174.03.
3. The laboratory (Reliability Lab of Huawei Technologies Co., Ltd) is also named as “Global Compliance and Testing Center of Huawei Technologies Co., Ltd”, the both names have coexisted since 2009.
4. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
5. The test report is invalid if there is any evidence of erasure or falsification.
6. The test report is only valid for the test samples.
7. Content of the test report, in part or in full, cannot be used for publicity or promotional purposes without prior written approval from the laboratory.
8. If any question about this report, please contact the laboratory (PublicGCTC@huawei.com).

Applicant: Huawei Technologies Co., Ltd.
Address: No.2, New City Avenue, Songshan Lake Sci. & Tech. Industry Park, Dongguan, 523808, P.R.C
Product Name: FusionSolar
Product Model: FusionSolar V800R021

Date of Receipt Sample: 2021-06-23
Start Date of Test: 2021-06-24
End Date of Test: 2021-07-24

Test Result: Pass

Approved by Senior 2021-08-10 Zhao Meijuan *Zhao Meijuan*
Engineer: Date Name Signature

Prepared by: 2021-08-10 Zhou Minghui *Zhou Minghui*
Date Name Signature

Modification Record

No.	Last Report No.	Modification Description
1	NA	First report

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1 General Information

1.1 Standard Compliance

Test Methods:

GB/T 2423.17—2008

IEC 60068-2-11:1981

ISO 9227 C5-m

Note: GB/T 2423.17—2008, IEC 60068-2-11:1981 have been accredited by CNAS and AL2.

1.2 Test Location

Test Location 1: Reliability Laboratory of Huawei Technologies Co., Ltd.

Address: No.2 New City Avenue Songshan Lake Sci. &Tech. Industry Park, Dongguan, Guangdong, P.R.C

1.3 Testing Environment Condition

Ambient Temperature: +20 to +25℃

Relative Humidity: 45% to 55%

Atmospheric Pressure: 101kPa

2 Test Results

2.1 Test Items and Results

Table 1 Test items and results

SN	Test Item	Standard Compliance	Test Parameter	Result	Location
1	Salt fog test	GB/T 2423.17—2008 IEC 60068-2-11:1981 ISO 9227 C5-m	+35℃, 5%±1% NaCl solution, pH: 6.5 to 7.21, 3ml/h/80cm ² Duration of test: 720 h.	Pass	Location 1

2.2 Test Instruments

Table 2 List of test instruments

Test Instrument	Model	Manufacturer	Asset Number	Calibration Date	Calibration Interval (month)
DG-C006 Entered Salt Spray Test Box	CEEC-YW-16	ESPEC	A130914373	2020-10-21	12

3 Product Specification

3.1 Main Product Specification

Table 3 Main product specification

Rated Input Voltage	DC 1180~1500V, AC 800V 3~
Rated Power	200kW
Dimensions of the Sample	875mm(W) x 800mm(D) x 365mm(H) (LUN)
Weight of the Sample	<90kg
Sample Assembly Level	Product
Quantity of the Sample	1 set



Figure 1. Photograph of identification plate

4 Detailed Test Data

4.1 Salt Fog Test

4.1.1 Test Procedure

- 1) The EUT shall be visually examined and, if necessary, electrically and mechanically checked as required by the relevant specification.
- 2) Cleaning the EUT immediately before the test; it shall also state whether temporary protective coatings shall be removed.
- 3) The EUT shall be placed neat the central of the test chamber. Direct spray impinges upon the EUT shall be avoided.
- 4) The EUT shall be tested in their normal operating positions according to the relevant specification. They shall therefore be divided into lots, and each lot shall be tested in one of the operating positions.
- 5) Duration of spray test: 720 hours.
- 6) At the completion of the test, the EUT shall be washed by distilled, the temperature of the water used for washing shall not exceed +35°C, the EUT shall then be stored under standard recovery conditions for not less than 1h and not more than 2 hours.
- 7) The EUT shall be visually inspected and the result shall be recorded.

4.1.2 Detailed Test Data

Table 3 Detailed test data of salt fog test

EUT	Check Item	Qualification Criterion	Measurement Result
EUT1	Visual inspection	No visible deterioration, deformation, corrosion, or cracking of the material	No visible deterioration, deformation, corrosion, or cracking of the material

Remark:

- 1) The salt used for the test shall be high quality sodium chloride (NaCl) containing, when dry, not more than 0.1% sodium iodide and not more than 0.3% of total impurities.
- 2) The salt solution concentration shall be 5±1% by weight.
- 3) The solution shall be prepared by dissolving 5±1 parts by weight of salt in 95 parts by weight of distilled or dematerialized water.

- 4) The pH value of the solution shall be between 6.5 and 7.2, at a temperature of $+35\pm 2^{\circ}\text{C}$, The pH value shall be maintained within this range during conditioning; for this purpose, diluted hydrochloric acid or sodium hydroxide may be used to adjust the pH value provided that the concentrations of NaCl remains with the prescribe limits. The pH value shall be measured when preparing each batch of solution.

Table 1 Detailed data of solution concentration and pH value

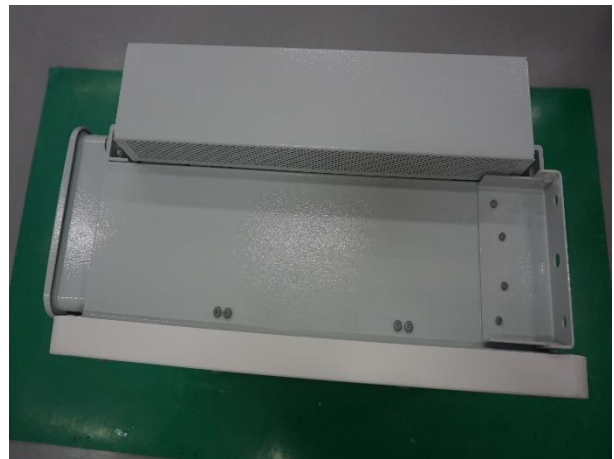
SN	Check Item	Measurement Before Test	Intermediate Measurement Result	Measurement After Test
1	Salt solution concentration	5.01%	5.02%	5.01%
2	pH value	6.85	6.91	6.90

5 Test Photos

5.1 Salt Fog Test Photos



Before test-1



After test-1



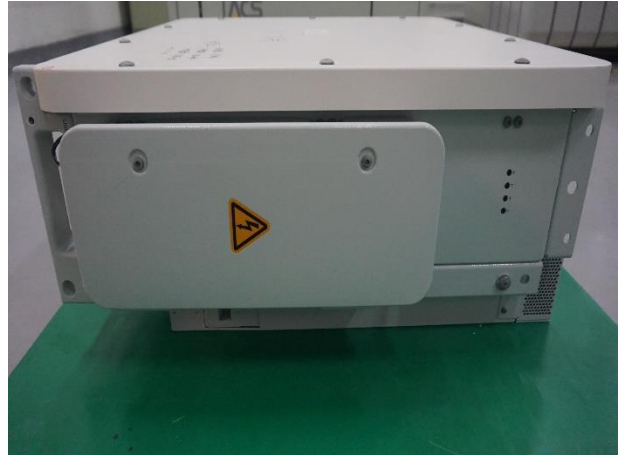
Before test-2



After test-2



Before test-3



After test-3



Before test-4



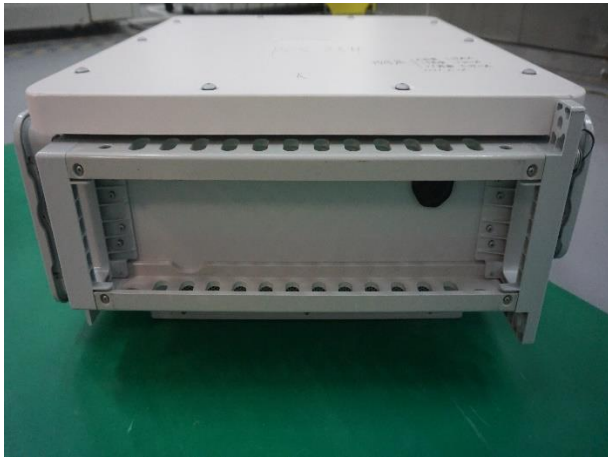
After test-4



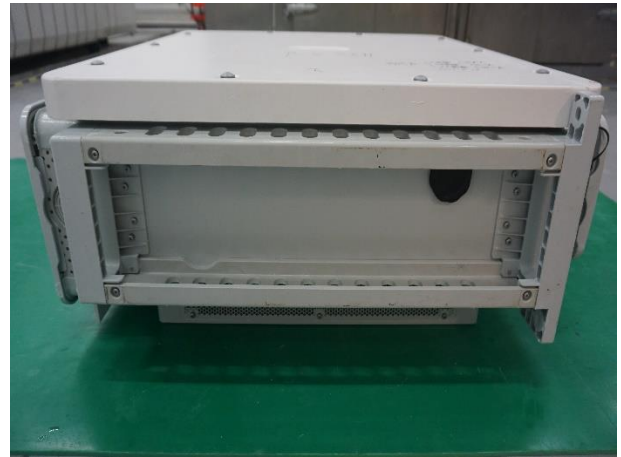
Before test-5



After test-5



Before test-6



After test-6

Figure 2. Visual inspection before and after test



Figure 3. During test/Set up

Appendix Abbreviations

Abbreviation	Full Name
EUT	Equipment Under Test
PCS	Power control system

END