



# TEST REPORT

**Applicant name and address** : **Shenzhen SOFARSOLAR Co., Ltd.**  
 5/F, Building 4, Antongda Industrial Park, No.1 Liuxian Avenue, Xin' an Street, Bao'an District, Shenzhen City, Guangdong Province, P.R.China

**Manufacture name and address** : **Shenzhen SOFARSOLAR Co., Ltd.**  
 5/F, Building 4, Antongda Industrial Park, No.1 Liuxian Avenue, Xin' an Street, Bao'an District, Shenzhen City, Guangdong Province, P.R.China

**Report No** : 170418010GZU-002 **Issue Date** : 24 April 2017

### Sample Description

*Name of Sample* : Solar inverter  
*Model Number* : SOFAR 4.4KTL-X, SOFAR 5.5KTL-X, SOFAR 6.6KTL-X, SOFAR 8.8KTL-X, SOFAR 11KTL-X, SOFAR 12KTL-X  
*Quantity of Sample(s)* : 1  
*Date of Receival* : 18 April 2017  
*Date of test Conducted* : 18 April 2017 – 19 April 2017

### Test

*Test Requested* : IP65  
*Test Method* : Refer to IEC 60529:2001-02(Ed.2.1) clause 13 and clause 14  
*Test Observation:* : See appendix test condition for details  
*Test Conclusion:* : **Pass**  
*Other information* : --  
*Remark* : 

- This test report is only for evaluation of the specified standard clauses listed in Test Requested.
- When determine the test result, measurement uncertainty has been considered.

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Tested by:  
  
 \_\_\_\_\_  
 Jason Fu  
 Project Engineer

Approved by:  
  
 \_\_\_\_\_  
 Tommy Zhong  
 Assistant Technical Manager

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**This report is based on report No.2017DDWA00299, dated 12 April 2017, issued by National Center of Supervision and Inspection on Solar Photovoltaic Product Quality**

#### Electrical Rating:

Maximum d.c. input voltage: 1000 Vdc

Input voltage range: 160-960 Vdc

MPPT voltage range (full Load): 190-850 V (for SOFAR 4.4KTL-X); 240-850 V(for SOFAR 5.5KTL-X); 290-850 V(for SOFAR 6.6KTL-X); 380-850 V(for SOFAR 8.8KTL-X); 480-850 V(for SOFAR 11KTL-X); 575-850 V(for SOFAR 12KTL-X);

Max. input current: 2×11 A

Nominal output voltage: 3/N/PE230V/400Vac

Max. output current: 3×6.4 A (for SOFAR 4.4KTL-X); 3×8.0 A (for SOFAR 5.5KTL-X); 3×9.6 A (for SOFAR 6.6KTL-X); 3×12.8A (for SOFAR 8.8KTL-X); 3×15.9 A (for SOFAR 11KTL-X); 3×19.1 A (for SOFAR 12KTL-X);

Nominal frequency: 50 Hz

Max. output power: 4400VA (for SOFAR 4.4KTL-X); 5500VA (for SOFAR 5.5KTL-X); 6600VA (for SOFAR 6.6KTL-X); 8800VA(for SOFAR 8.8KTL-X); 11000VA (for SOFAR 11KTL-X); 13200VA (for SOFAR 12KTL-X)

Ingress protection: IP65

Operating temperature range: -25~+60°C

Other than special notes, the model SOFAR 12KTL-X used as representative for testing

#### **Intertek Testing Services Shenzhen Ltd. Guangzhou Branch**

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File No.: General-ACCE-001, date: May 2016

Appendix test condition :

Number	Test items	Test condition	Test result
<u>1</u>	IP6X	The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump, The suction connection shall be made to a hole specially provided for the test.	No deposit of dust is observable inside the enclosure.
<u>2</u>	IPX5	Internal diameter of the nozzle: 6.3 mm Delivery rate: 12.5 L/min Core of the substantial stream: circle of approximately 40 mm diameter at 2.5 m distance from nozzle Test duration: 3 min Distance from nozzle to enclosure surface: between 2.5 m and 3 m.	No water inside the enclosure

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**Appendix Photos:**

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Tested before IP6X



IP6X testing

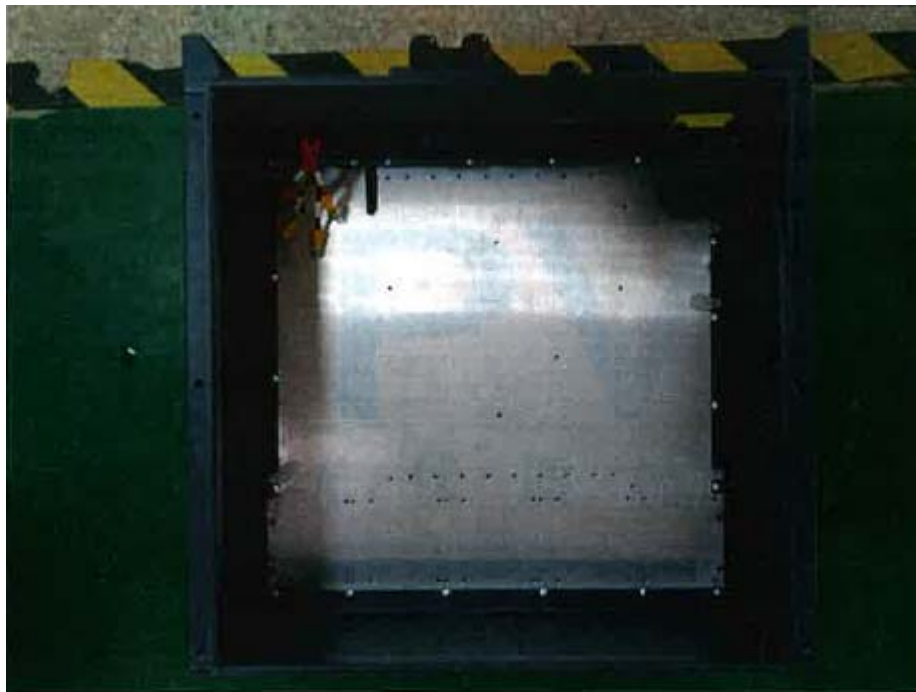
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**Appendix Photos:**

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IPX5 testing



Checked after IP65

\*\*\*\*\*End of report\*\*\*\*\*