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# **TEST REPORT**

Applicant :		Shenzhen SOFARSOLAR Co., Ltd	
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Address : 401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community,

XinAn Street, BaoAn District, Shenzhen, China

**Sample Description** 

Name of Sample : Solar Grid-tied Inverter

Model Number : SOFAR 10000TL-G2, SOFAR 12000TL-G2, SOFAR 15000TL-G2

Quantity of Sample(s) : 1

Date of Receival : 10 Jun 2019
Date of test Conducted : 10 Jun 2019

**Test** 

Test Requested : IP65

Test Method : Refer to IEC/EN 62109-1:2010 clause 6.3

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.

***********	** End of page ******************
Tested by:	Approved by:
	Janny
Jason Fu Technical Team Leader	Tommy Zhong Technical Manager

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#### Rating:

Railily.				
Model	SOFAR 10000TL-G2	SOFAR 12000TL-G2	SOFAR 15000TL-G2	
Max.PV voltage		1000 d.c.V		
PV MPPT voltage range		160-960 d.c.V		
Max.input current	21 /11 d.c.A			
PV Isc		30/15 d.c.A		
Max.output power	10000W	12000W	15000W	
Max.apparent power	11000VA	13200VA	16500VA	
Nominal output voltage		3/N/PE, 230 /400 a.cV		
Max.output current	3×16.5 a.c.A	3×20.0 a.c.A	3×24.0 a.c.A	
Nominal output Frequency		50 Hz		
Power factor range		0.8Leading – 0.8 lagging		
Inverter technology		Non-isolated		
Safety level		Class I		
Ingress Protection		IP 65		
Operation Ambient Temperature		-25°C - +60°C		
Software Version	V0.21			

#### **Model differences:**

The model SOFAR 10000TL-G2, SOFAR 12000TL-G2 and SOFAR 15000TL-G2 are completely identical, except output power derating in software.

The only differences on hardware between the models SOFAR 10000TL-G2, SOFAR 12000TL-G2 and SOFAR 15000TL-G2 are below:

1.The main output inductor is NPS226060\*2+NPF226060\*2,  $2.0\Phi^*2P$  /37Ts L=756ųH for model SOFAR 15000TL-G2 while it's NPS226060\*2+NPF226060\*1,  $2.0\Phi^*2P^*42Ts$  L=0.73mH for model SOFAR 10000TL-G2, SOFAR 12000TL-G2



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

# Appendix test condition:

Number	Test items	Test condition	Test result
1	IP6X	The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmostpheric 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.
2	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

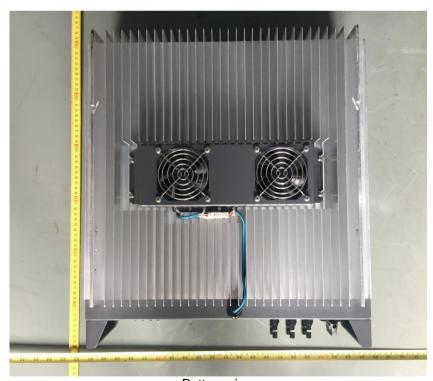


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# **Appendix Photos:**



Overview



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# **Appendix Photos:**



Test setup of IP6X



Test setup of IPX5

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Appendix Photos: Report No.: 190411091GZU-004



Checked after test finish

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