TEST REPORT

Applicant	:	**Shenzhen SOFARSOLAR Co., Ltd.**
Address	:	401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District, Shenzhen, China
Report No	:	190411091GZU-004 **Issue Date** : 18 Jun., 2019

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.

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Tested by:

Jason Fu

Jason Fu
Technical Team Leader

Approved by:

Tommy

Tommy Zhong
Technical Manager

Rating:

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℃ - +60℃		
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, 2.0Φ*2P /37Ts L=756μH for model SOFAR 15000TL-G2 while it's NPS226060*2+NPF226060*1, 2.0Φ*2P*42Ts L=0.73mH for model SOFAR 10000TL-G2, SOFAR 12000TL-G2

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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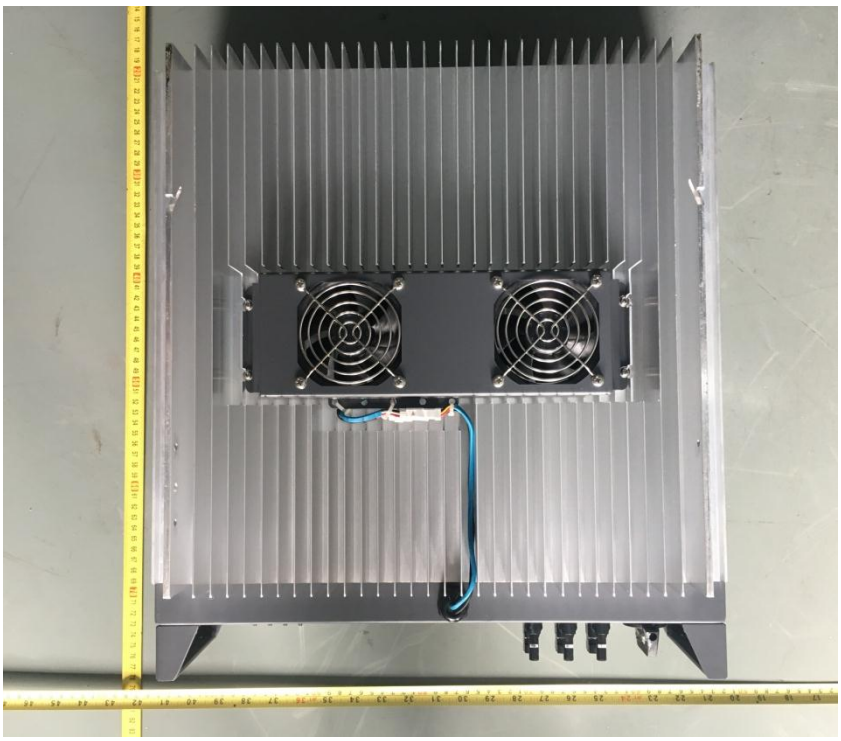
Appendix Photos: Report No.: 190411091GZU-004

Overview



Bottom view

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Appendix Photos: Report No.: 190411091GZU-004

Test setup of IP6X

Test setup of IPX5

Appendix Photos: Report No.: 190411091GZU-004

Checked after test finish

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