


Test Verification of Conformity

Verification Number: 201015063GZU -VOC001

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it.

Once compliance with all product relevant  mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Shenzhen SOFARSOLAR Co., Ltd. 401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District, Shenzhen, China
Product Description: Ratings & Principle Characteristics:	Hybrid inverter Refer to Appendix: Test Verification of Conformity
Models/Type References:	HYD 6000-EP, HYD 5500-EP, HYD 5000-EP, HYD 4600-EP, HYD 4000-EP, HYD 3680-EP, HYD 3000-EP
Brand Name:	SOFAR SOLAR
Relevant Standards/Directives:	IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters Low Voltage Directive 2014/35/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	15 Oct 2020 – 21 Nov 2020
Test Report Number(s):	201015063GZU-001, 201015063GZU-002
Additional information in Appendix.	



Signature

Name: Tommy Zhong

Position: Technical Manager

Date: 10 December 2020

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 201015063GZU-VOC001

Ratings & Principle Characteristics:

Model	HYD 3000-EP	HYD 3680-EP	HYD 4000-EP	HYD 4600-EP
Max. PV Input Voltage [d.c.V]	600			
Max. input current per MPPT [d.c.A]	13/13			
Max. PV Isc [d.c.A]	2 X 18			
Battery Type	Lead-acid, Lithium-ion			
Battery Voltage Range [d.c.V]	42-58			
Max. Charging Current [d.c.A]	75	80	85	100
Max. Discharging Current [d.c.A]	75	80	85	100
Max. Charging & Discharging Power [W]	3750	4000	4250	5000
Nominal Grid voltage [a.c.V]	230			
Nominal Output Voltage (backup) [a.c.V]	230			
Max. output current [a.c.A]	15	16	20	20.9
Max AC current from utility grid [a.c.A]	27.3	32	36.4	41.8
Nominal Grid Frequency	50/60Hz			
Power Factor	1 (adjustable +/-0.8)			
Nominal AC power [W]	3000	3680	4000	4600
Backup Max.current [a.c.A]	13.6	16.0	18.2	20.9
Backup Max. Apparent Power [VA]	3000	3680	4000	4600
Ingress Protection	IP 65			
Protective Class	Class I			
Operating temperature range	-30 ~ +60°C			
Software Version	V02000			



Signature

Name: Tommy Zhong

Position: Technical Manager

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APPENDIX: Test Verification of Conformity

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Ratings & Principle
Characteristics:

Model	HYD 5000-EP	HYD 5500-EP	HYD 6000-EP
Max. PV Input Voltage [d.c.V]	600		
Max. input current per MPPT [d.c.A]	13/13		
Max. PV Isc [d.c.A]	2 X 18		
Battery Type	Lead-acid, Lithium-ion		
Battery Voltage Range [d.c.V]	42-58		
Max. Charging Current [d.c.A]	100	100	100
Max. Discharging Current [d.c.A]	100	100	100
Max. Charging & Discharging Power [W]	5000	5000	5000
Nominal Grid voltage [a.c.V]	230		
Nominal Output Voltage (backup) [a.c.V]	230		
Max. output current [a.c.A]	21.7	25	27.3
Max AC current from utility grid [a.c.A]	43.4	43.4	54.6
Nominal Grid Frequency	50/60Hz		
Power Factor	1 (adjustable +/-0.8)		
Nominal AC power [W]	5000	5000	6000
Backup Max.current [a.c.A]	22.7	22.7	22.7
Backup Max. Apparent Power [VA]	5000	5000	5000
Ingress Protection	IP 65		
Protective Class	Class I		
Operating temperature range	-30 ~ +60°C		
Software Version	V02000		



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