

Certificate of Conformity

Certificate Number: CN-PV-210190

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced specifications /standards at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture. The manufacturer shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

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: Solar Grid-tied Inverter

Ratings & Principle See Annex to Certificate of Conformity Characteristics:

Models/Type References: SOFAR 3KTLM-G3, SOFAR 3.6KTLM-G3, SOFAR 4KTLM-G3,

SOFAR 4.6KTLM-G3, SOFAR 5KTLM-G3, SOFAR 5KTLM-G3-A

SOFAR 6KTLM-G3

Brand Name: 59 FAR

Specification/Standard: EN 50549-1: 2019, Requirements for generating plants to be connected

in parallel with distribution networks

Part 1: Connection to a LV distribution network - Generating

plants up to and including Type B

Type approval for type A and with deviations according to the Romania (The technical requirements for connection to the electrical networks of public

Ordinul 208_201)

Certificate Issuing Office

Name & Address:

Intertek Testing Services Ltd. Shanghai

West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free

Trade Zone, Shanghai, P. R. China

Test Report Number: 210120057GZU-001

Additional information in Appendix.

Signature

Certification Manager: Grady Ye

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Date: 31 August 2021

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210190

MODEL	SOFAR 3KTLM- G3	SOFAR 3.6KTLM- G3	SOFAR 4KTLM-G3	SOFAR 4.6KTLM- G3	
Input (DC)	•				
Max. input voltage	600V				
Start-up voltage	90V				
Rated input voltage	380V				
MPPT operating voltage range	80V~550V				
Full power MPPT voltage range	200V~500V				
Max. input MPPT current	15A/15A				
Max. input short circuit current per MPPT	22.5A/22.5A				
Output (AC)	U .			8	
Rated power	3000W	3680W	4000W	4600W	
Max. AC power	3300VA	3680VA	4400VA	4600VA	
Rated output current	13.6A	16A	18.2A	21A	
Max output current	15A	16A	20A	23A	
Nominal grid voltage	230Vac				
Nominal frequency	50Hz/60Hz				
Power factor	1default(+/-0.8 adjustable)				
Ambient temperature range	-30~+60℃				
Degree of protection	IP65				
Cooling	Natural				
Software version		V000001			

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MODEL	SOFAR 5KTLM-G3	SOFAR 5KTLM-G3-A	SOFAR 6KTLM-G3	
Input (DC)		•		
Max. input voltage	600V			
Start-up voltage	90V			
Rated input voltage	380V			
MPPT operating voltage range	80V~550V			
Full power MPPT voltage range	210V~500V		260V~500V	
Max. input MPPT current	15A/15A			
Max. input short circuit current per MPPT	22.5A/22.5A			
Output (AC)		_	//	
Rated power	5000W	5000W	6000W	
Max. AC power	5500VA	5000VA	6000VA	
Rated output current	22.7A	21.7A	27.3A	
Max output current	25A	21.7A	29A	
Nominal grid voltage	230Vac			
Nominal frequency	50Hz/60Hz			
Power factor	1default(+/-0.8 adjustable)			
Ambient temperature range	-30~+60℃			
Degree of protection	IP65			
Cooling	Natural			
Software version	V000001			

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Interface protection settings according to EN 50549-1:2019 with deviation of Romania					
Parameter	Max. disconnection time	Min. operate time	Trip value		
Undervoltage threshold	100s	0.1s	Trip value Config. from		
stage 1 [27 <]		(0.1 s steps)	0.2 to 1 Un		
			(0.01 Un steps)		
Undervoltage threshold	5s	0.1s	Trip value Config. from		
stage 2 [27 <<]		(0.05 s steps)	0.2 to 1 Un		
			(0.01 Un steps)		
Overvoltage threshold	100s	0.1s	Trip value Config. from		
stage 1 [59 >]		(0.1 s steps)	1.0 to 1.2 Un		
			(0.01 Un steps)		
Overvoltage threshold	5s	0.1s	Trip value Config. from		
stage 2 [59>>]		(0.05 s steps)	1.0 to 1.3 Un		
			(0.01 Un steps)		
Overvoltage 10 min	Trip time Config≤	3s not adjustable	Trip value Config. from		
mean protection		etting = 0 ms	1.0 to 1.15Un		
		, ,	(0.01 Un steps)		
Underfrequency	100s	0.1s	Trip value Config. from		
threshold stage 1 [81 <]		(0.1s steps)	47.0 to 50.0Hz		
0			(0.1Hz steps)		
Underfrequency	5s	0.1s	Trip value Config. from		
threshold stage 2 [81		(0.05 s steps)	47.0 to 50.0Hz		
<<]	W	` '	(0.1Hz steps)		
Overfrequency threshold	100s	0.1s	Trip value Config. from		
stage 1 [81 >]		(0.1s steps)	50.0 to 52.0Hz		
0 1 7		11 11 11 11 11 11	(0.1Hz steps)		
Overfrequency threshold	5s	0.1s	Trip value Config. from		
stage 2 [81 >>]	(b) (d)	(0.05 s steps)	50.0 to 52.0Hz		
,			(0.1Hz steps)		
Starting to and reconnection settings for voltage		50%-120% adjustable, 90%Un≤ U≤1.10Un default			
Starting to generate electrical power for frequency		47Hz – 52Hz adjustable, 47.5Hz≤ U≤51Hz default			
Reconnection settings for frequency		47Hz – 52Hz adjustable, 47.5Hz≤ U≤51Hz default			
Observation time	11	10s-300s adjustable, 60s default			
Active power increase grad	dient	6%-3000%/min adjustable, 10%/min default			
Permanent DC injection		0.5% of rated inverter output			
•	Loss of mains according to EN 62116		Within 2s		

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