

Certificate of Conformity

Certificate Number: CN-PV-220111R2

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

Applicant: Shenzhen SOFARSOLAR Co., Ltd.

11/F., Gaoxinqi Technology Building, No.67 Area, Xingdong Community,

Xin'an Sub-district, Bao'an District, Shenzhen City, China

Product: Inverter Module

Ratings & Principle See appendix of Certificate of Conformity Characteristics:

Model: ESI 3K-S1, ESI 3.68K-S1, ESI 4K-S1, ESI 4.6K-S1, ESI 5K-S1,

ESI 5K-S1-A, ESI 6K-S1

Brand Name<s>: 5 FAR

Product Complies with: 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 Ireland interface settings

Certificate Issuing Office Intertek Testing Services Ltd. Shanghai

Name & Address: West Area, 2nd Floor, No. 707, Zhangyang Road

China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China

Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012

Test Report No.<s>: 230621141GZU-001

According to Annex H of the standard EN 50549-1:2019, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631, provided that all settings as provided by the DSO and the responsible party are complied with.

Replaces certificate CN-PV-220111R1 dated 29 July 2022

Additional information in Appendix.

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Signature

Certification Manager: Grady Ye

Date: 14 July 2023

ACCREDIA 5

PRD N° 306B



APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220111R2

MODEL	ESI 3K-S1	ESI 3.68K-S1	ESI 4K-S1	ESI 4.6K-S1	
Max.DC input voltage	550Vdc				
MPPT voltage range	85~520Vdc				
Max.PV Isc	2*22.5A				
Rated battery voltage	400V				
Max.charging/discharging current	20A				
Max.charging/discharging power	3000W	3680W	4000W	4600W	
Rated grid voltage	230V,50Hz				
Rated output voltage	230V,50/60Hz				
Max.output current	15A	16A	20A	20.9A	
Power Factor	1 default (adjustable+/-0.8)				
Rated output power	3000W	3680W	4000W	4600W	
Backup Rated Current	13A	16A	17.4A	20A	
Backup Rated Apparent Power	3000VA	3680VA	4000VA	4600VA	
Ambient Temperature	-10~ +50°C				
Protection Degree	IP65				
Protection Class	Class I				
Inverter topology	Non-Isolated				
Overvoltage Category	AC III, DC II				
Firmware version:	V000001				



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MODEL	ESI 5K-S1	ESI 5K-S1-A	ESI 6K-S1		
Max.DC input voltage	550Vdc				
MPPT voltage range	85~520Vdc				
Max.PV Isc	2*22.5A				
Rated battery voltage	400V				
Max.charging/discharging current	20A				
Max.charging/discharging power	5000W	5000W	6000W		
Rated grid voltage	230V,50Hz				
Rated output voltage	230V,50/60Hz				
Max.output current	25A	22.7A	30A		
Power Factor	1 default (adjustable+/-0.8)				
Rated output power	5000W	5000W	6000W		
Backup Rated Current	21.7A	22.7A	26A		
Backup Rated Apparent Power	5000VA	5000VA	6000VA		
Ambient Temperature	-10~ +50 ℃				
Protection Degree	IP65				
Protection Class	Class I				
Inverter topology	Non-Isolated				
Overvoltage Category	AC III, DC II				
Firmware version:	V000001				



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Interface protection of Ireland interface settings:

Parameter		Trip setting	Clearance time			
LC EN FOF 40 4 Two Chann Walter of Cathings	Stage 1	269 V / 468V	70 s			
I.S. EN 50549-1 Two Stage Voltage Settings	Stage 2	281 V / 488V	0.7 s			
Under voltage		191 V / 332V	0.7 s			
Over frequency*	52 Hz	0.5s				
Under frequency*	47 Hz	0.5s				
in explicit Loss of Mains functionality shall be included. Established methods such as, but not limited to. Rate of Change of Frequency, or Source impedance Measurement may be used. Where Source impedance is measured, this shall be achieved by purely passive means. Any implementation which involves the injection of pulses onto the DSO network, shall not be permitted.						
ROCOF (**)		1.0 Hz/s	0.6s			
Vector Shift		Not permitted				