

Test Verification of Conformity

Verification Number: 2401B1150SHA-V1

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced standards at the time the tests were carried out. This verification is part of the full test report and should be read in conjunction with them.

Applicant Name & Address:	Sieyuan Electric Co.,Ltd. 3399 Huaning Road, Minhang District, Shanghai,P.R.China
Product Description:	Hybrid inverter
Ratings & Principle Characteristics:	See Appendix (Specifications table)
Models/Type References:	See Appendix (Specifications table)
Brand Name:	Sieyuan
Relevant Standards:	IEC 62109 1:2010, EN 62109-1:2010, IEC 62109-2:2011, EN 62109-2:2011
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2024-01-22 to 2024-01-26
Test Report Number(s):	2401B1150SHA-001

Additional information in Appendix.


Signature

Name: Max Jin

Position: General Manager

Date:2024-02-26

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2401B1150SHA-V1

Manufacturer: Same as applicant

Specifications table			
Model	SiH-3kW-SH	SiH-3.6kW-SH	SiH-4kW-SH
PV input			
Vmax PV (Vdc) (absolute Max.)	600		
Isc PV (absolute Max.) (A)	20 / string	20 / string	20 / string
Max. PV input current / strings (A)	16 / string	16 / string	16 / string
Number MPP trackers	2	2	2
Number input strings	1	1	1
MPPT Range (Vdc)	40-560		
Battery (charge/discharge)			
Battery type	Li-ion/Lead-acid		
Battery Norma Voltage (Range) (Vdc)	80-460		
Max charge/discharge Current(A)	30/30	30/30	30/30
Max charge/discharge Power(kW)	6.6/6.6	6.6/6.6	6.6/6.6
AC Grid (input and output)			
Normal AC Voltage (VAC)	220/230/240 (single phase)		
Frequency (Hz)	50		
Rated cont. input/output current (A)	13.1	16	17.4
Max. cont. input/output current (A)	13.7	16	18.2
Max. cont. input/output Power (Kw)	3	3.68	4
Max. cont. Apparent Power (Kva)	3	3.68	4
Power factor(adjustable)	1.0(-0.8~ +0.8)		
AC Load output (stand alone)			
Normal Voltage (VAC)	220/230/240 (single phase)		
Frequency (Hz)	50		
Nominal Current(A)	13.1	16	17.4
Max. cont. Power (Kw)	3	3.68	4
Output Power Factor (off grid)	>0.99		
Output Current Harmonic Distortion	<3%		

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Others	
Ingress protection (IP)	IP65
Protective class	Class I
Temperature (°C)	-25°C to +60°C (Derating 45°C)
Inverter Isolation	<input checked="" type="checkbox"/> Non-isolated <input type="checkbox"/> High frequency isolated(Battery Side)
Overvoltage category	OVC III (AC Main), OVC II (DC)
Attitude (m)	4000
Dimensions, D*W*H (mm)	495*345*180
Weight (kg)	18.6

Specifications table		
Model	SiH-5kW-SH	SiH-6kW-SH
PV input		
Vmax PV (Vdc) (absolute Max.)	600	
Isc PV (absolute Max.) (A)	20 / string	20 / string
Max. PV input current / strings (A)	16 / string	16 / string
Number MPP trackers	2	2
Number input strings	1	1
MPPT Range (Vdc)	40-560	
Battery (charge/discharge)		
Battery type	Li-ion/Lead-acid	
Battery Norma Voltage (Range) (Vdc)	80-460	
Max charge/discharge Current(A)	30/30	30/30
Max charge/discharge Power(kW)	6.6/6.6	6.6/6.6
AC Grid (input and output)		
Normal AC Voltage (VAC)	220/230/240 (single phase)	
Frequency (Hz)	50	
Rated cont. input/output current (A)	21.8	26.1
Max. cont. input/output current (A)	22.8	27.3
Max. cont. input/output Power (Kw)	5	6
Max. cont. Apparent Power (Kva)	5	6
Power factor(adjustable)	1.0(-0.8~ +0.8)	
AC Load output (stand alone)		
Normal Voltage (VAC)	220/230/240 (single phase)	
Frequency (Hz)	50	
Nominal Current(A)	21.8	26.1
Max. cont. Power (Kw)	5	6
Output Power Factor (off grid)	>0.99	
Output Current Harmonic Distortion	<3%	

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Others	
Ingress protection (IP)	IP65
Protective class	Class I
Temperature (°C)	-25°C to +60°C (Derating 45°C)
Inverter Isolation	<input checked="" type="checkbox"/> Non-isolated <input type="checkbox"/> High frequency isolated(Battery Side)
Overvoltage category	OVC III (AC Main), OVC II (DC)
Attitude (m)	4000
Dimensions, D*W*H (mm)	495*345*180
Weight (kg)	18.6



Signature

Name: Max Jin

Position: General Manager

Date: 2024-02-26

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