


Test Verification of Conformity

Verification Number: 2401B1151SHA-V1

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 <them>.

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:	Sieyuan Electric Co.,Ltd. 3399 Huaning Road, Minhang District, Shanghai,P.R. China
Product Description:	Hybrid inverter
Ratings & Principle Characteristics:	See Appendix
Models/Type References:	SiH-3kW-SH, SiH-3.6kW-SH, SiH-4kW-SH, SiH-5kW-SH, SiH-6kW-SH
Brand Name:	Sieyuan
Relevant Standards/Directives:	EN IEC 61000-6-3:2021 EN IEC 61000-6-1:2019 the EMC Directive 2014/30/EU
Verification Issuing Office Name & Address:	Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), Shanghai 200233, China
Date of Tests:	2022-11-08 to 2022-11-24
Test Report Number(s):	220902010SHA-001, 220902010SHA-001+A1



Signature

Name: Max Jin

Position: General Manager

Date: 2024-02-21

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 2401B1151SHA-V1

Specifications table			
Model	SiH-3kW-SH	SiH-3.6kW-SH	SiH-4kW-SH
<i>PV input</i>			
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		
<i>Battery (charge/discharge)</i>			
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
<i>AC Grid (input and output)</i>			
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

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Specifications table			
Model	SiH-3kW-SH	SiH-3.6kW-SH	SiH-4kW-SH
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%		
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		

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Specifications table		
Model	SiH-5kW-SH	SiH-6kW-SH
<i>PV input</i>		
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	
Vdc range @ full power (Vdc)	162-560	193-560
P pv Max(kW)	12	13
<i>Battery (charge/discharge)</i>		
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
<i>AC Grid (input and output)</i>		
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)	
<i>AC Load output (stand alone)</i>		

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Specifications table		
Model	SiH-5kW-SH	SiH-6kW-SH
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%	
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)	
Oversoltage category	OVC III (AC Main), OVC II (DC)	
Attitude (m)	4000	
Dimensions, D*W*H (mm)	495*345*180	
Weight (kg)	18.6	

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