

# Certificate of Conformity

Certificate Number: CN-PV-230145

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.

<b>Applicant:</b>	Sieyuan Electric Co., Ltd. 3399 Huaning Road, Minhang District, Shanghai, P.R.China
<b>Product:</b>	Hybrid inverter
<b>Ratings &amp; Principle Characteristics:</b>	See appendix of Certificate of Conformity
<b>Model:</b>	SiH-5kW-SH, SiH-6kW-SH
<b>Brand Name&lt;s&gt;:</b>	Sieyuan
<b>Product Complies with:</b>	G99 Issue 1 Amendment 9, 3 October 2022
<b>Certificate Issuing Office Name &amp; Address:</b>	Intertek Testing Services Ltd. Shanghai West Area, 2 <sup>nd</sup> 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
<b>Test Report No.&lt;s&gt;:</b>	230100257SHA-001

Additional information in Appendix.



Signature

**Certification Manager: Qiao Qiao**

**Date: 04 April 2023**



PRD N° 306B

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230145

### Ratings & Principle Characteristics:

Specifications table		
Model	SiH-5kW-SH	SiH-6kW-SH
<b>PV input</b>		
V <sub>max</sub> PV (Vdc) (absolute Max.)	600	
I <sub>sc</sub> PV (absolute Max.) (A)	20 x2	20 x2
Max. PV input current (A)	16 x2	16 x2
Number MPP trackers	2	2
Number input strings	1/1	1/1
MPPT Range (Vdc)	40-560	
Vdc range @ full power (Vdc)	162-560	193-560
P <sub>pv</sub> Max(kW)	12	13
<b>Battery (charge/discharge)</b>		
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
<b>AC Grid (output)</b>		
Normal AC Voltage (VAC)	230 (single phase)	
Frequency (Hz)	50	
Rated cont. output current (A)	21.8	26.1
Max. cont. output current (A)	22.8	27.3
Max. cont. output Power (kW)	5	6
Max. cont. Apparent Power (kVar)	5	6
Power factor(adjustable)	1.0 ( -0.8~ +0.8)	
<b>AC Load output (stand alone)</b>		
Normal Voltage (VAC)	230 (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%	
<b>Others</b>		
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 (PV)	
Attitude (m)	4000	
Dimensions, D*W*H (mm)	495*345*180	
Weight (kg)	18.6	

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