



Product Service

Attestation of Conformity

No. N8A 120194 0026 Rev. 00

Holder of Attestation: **Shanghai Sieyuan Watten Technology Co., Ltd.**

Room 306, Building 1, HuaNing Road - No.3399
Minhang District
201108 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter
Hybrid Inverter**

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 5040924001399-00

Date, 2024-09-16

(Zhengdong Ma)

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Model(s):

SiH-9.9kW-TH-PRO, SiH-10kW-TH-PRO, SiH-12kW-TH,
SiH-14.9kW-TH, SiH-15kW-TH, SiH-19.9kW-TH,
SiH-20kW-TH, SiH-25kW-TH, SiH-29.9kW-TH,
SiH-30kW-TH, SiH-40kW-TH

Parameters:

Model	SiH-9.9kW-TH-PRO	SiH-10kW-TH-PRO	SiH-12kW-TH	SiH-14.9kW-TH	SiH-15kW-TH
PV input parameters:					
Max. Input Power	20000 W	20000 W	24000 W	30000 W	30000 W
Max. Input Voltage	DC 1000 V				
MPP Voltage Range	DC 150, ..., 950 V				
Max. Input Current	DC 64 A (32/16/16 A)				
Isc PV	DC 80 A (40/20/20 A)				
Battery parameters:					
Battery Type	Li-ion				
Voltage Range	DC 100, ..., 800 V				
Max. Current	50 A				
AC input (Grid Side) Parameters:					
Rated Voltage	3/N/PE AC 220/380 V 3/N/PE AC 230/400 V 3/N/PE AC 240/415 V				
Rated Frequency	50/60 Hz				
Rated/Max. Current	AC 63 A				
Rated. Active Power	43000 W				
Rated/Max Apparent Power	43000 VA				
Power Factor Range	0.8 Led, ..., 1, ..., 0.8 Lag				
AC/ Backup output Parameters					
Rated Voltage	3/N/PE AC 220/380 V 3/N/PE AC 230/400 V 3/N/PE AC 240/415 V				
Rated Frequency	50/60 Hz				
Current (maximum continuous)	AC 15.2 A	AC 15.2 A	AC 18.2 A	AC 22.8 A	AC 22.8 A
Rated. Active Power	9999 W	10000 W	12000 W	14999 W	15000 W
Rated/Max Apparent Power	9999 VA	10000 VA	12000 VA	14999 VA	15000 VA
AC output power factor	0.8 Led, ..., 1, ..., 0.8 Lag				
EPS output power factor	0 Led, ..., 1, ..., 0 Lag				
General Parameters					
Ingress Protection	IP66				
Operating Temperature Range	-25, ..., +60 °C				
Protective Class	Class I				
Inverter topology	Non-isolated				
Overvoltage Category	GRID/BACKUP III, PV/BAT II				

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Model	SiH-19.9kW-TH	SiH-20kW-TH
PV input parameters:		
Max. Input Power	40000 W	
Max. Input Voltage	DC 1000 V	
MPP Voltage Range	DC 150, ..., 950 V	
Isc PV	DC 80 A (32/32/16 A)	
Short Circuit Current	DC 100 A (40/40/20 A)	
Battery parameters:		
Battery Type	Li-ion	
Voltage Range	DC 100, ..., 800 V	
Max. Current	50 A	
AC input (Grid Side) Parameters:		
Rated Voltage	3/N/PE AC 220/380 V 3/N/PE AC 230/400 V 3/N/PE AC 240/415 V	
Rated Frequency	50/60 Hz	
Rated/Max. Current	AC 63 A	
Rated. Active Power	43000 W	
Rated/Max Apparent Power	43000 VA	
Power Factor Range	0.8 Led, ..., 1, ..., 0.8 Lag	
AC/ Backup output Parameters		
Rated Voltage	3/N/PE AC 220/380 V 3/N/PE AC 230/400 V 3/N/PE AC 240/415 V	
Rated Frequency	50/60 Hz	
Current (maximum continuous)	AC 30.3 A	AC 30.3 A
Rated. Active Power	19999 W	20000 W
Rated/Max Apparent Power	19999 VA	20000VA
AC output power factor	0.8 Led, ..., 1, ..., 0.8 Lag	
EPS output power factor	0 Led, ..., 1, ..., 0 Lag	
General Parameters		
Ingress Protection	IP66	
Operating Temperature Range	-25, ..., +60 °C	
Protective Class	Class I	
Inverter topology	Non-isolated	
Overvoltage Category	GRID/BACKUP III, PV/BAT II	

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Model	SiH-25kW-TH	SiH-29.9kW-TH	SiH-30kW-TH	SiH-40kW-TH
PV input parameters:				
Max. Input Power	50000 W	60000 W	60000 W	60000 W
Max. Input Voltage	DC 1000 V			
MPP Voltage Range	DC 150, ..., 950 V			
Max. Input Current	DC 96 A (32/32/32 A)			
Isc PV	DC 120 A (40/40/40 A)			
Battery parameters:				
Battery Type	Li-ion			
Voltage Range	DC 100, ..., 800 V			
Max. Current	60 A			
AC input (Grid Side) Parameters:				
Rated Voltage	3/N/PE AC 220/380 V 3/N/PE AC 230/400 V 3/N/PE AC 240/415 V			
Rated Frequency	50/60 Hz			
Rated/Max. Current	AC 80 A			
Rated. Active Power	55000 W			
Rated/Max Apparent Power	55000 VA			
Power Factor Range	0.8 Led, ..., 1, ..., 0.8 Lag			
AC/ Backup output Parameters				
Rated Voltage	3/N/PE AC 220/380 V 3/N/PE AC 230/400 V 3/N/PE AC 240/415 V			
Rated Frequency	50/60 Hz			
Current (maximum continuous)	AC 37.9 A	AC 45.5 A	AC 45.5 A	AC 60.6 A
Rated. Active Power	25000 W	29999 W	30000 W	40000 W
Rated/Max Apparent Power	25000 VA	29999 VA	30000 VA	40000 VA
AC output power factor	0.8 Led, ..., 1, ..., 0.8 Lag			
EPS output power factor	0 Led, ..., 1, ..., 0 Lag			
General Parameters				
Ingress Protection	IP66			
Operating Temperature Range	-25, ..., +60 °C			
Protective Class	Class I			
Inverter topology	Non-isolated			
Overvoltage Category	GRID/BACKUP III, PV/BAT II			

Tested according to:

EN 62109-1:2010
EN 62109-2:2011

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