



Product Service

# CERTIFICATE

No. B 120194 0025 Rev. 00

**Holder of Certificate:** Shanghai Sieyuan Watten Technology Co., Ltd.  
Room 306, Building 1, HuaNing Road - No.3399  
Minhang District  
201108 Shanghai  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** Converter  
Hybrid Inverter

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 5040924001399-00

**Valid until:** 2029-09-16

**Date,** 2024-09-18

( 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
<b>PV input parameters:</b>					
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)				
<b>Battery parameters:</b>					
Battery Type	Li-ion				
Voltage Range	DC 100, ..., 800 V				
Max. Current	50 A				
<b>AC input (Grid Side) Parameters:</b>					
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				
<b>AC/ Backup output Parameters</b>					
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				
<b>General Parameters</b>					
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
<b>PV input parameters:</b>		
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)	
<b>Battery parameters:</b>		
Battery Type	Li-ion	
Voltage Range	DC 100, ..., 800 V	
Max. Current	50 A	
<b>AC input (Grid Side) Parameters:</b>		
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	
<b>AC/ Backup output Parameters</b>		
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	
<b>General Parameters</b>		
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
<b>PV input parameters:</b>				
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)			
<b>Battery parameters:</b>				
Battery Type	Li-ion			
Voltage Range	DC 100, ..., 800 V			
Max. Current	60 A			
<b>AC input (Grid Side) Parameters:</b>				
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			
<b>AC/ Backup output Parameters</b>				
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			
<b>General Parameters</b>				
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:** IEC 62109-1:2010  
 EN 62109-1:2010  
 IEC 62109-2:2011  
 EN 62109-2:2011