

CERTIFICATE OF CONFORMITY

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

For the product: Hybrid Inverter

Trade name: **Swatten**

Type/Model: 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

Ratings: See Annex

Manufactured by: Shanghai Sieyuan Watten Technology Co., Ltd.
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Requirements: EN 50549-1:2019+A1:2023
EN 50549-10:2022

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6211980.50.

The examination has been carried out on one single specimen of the product. The Attestation does not include an assessment of the manufacturer's production. Conformity of this production with the specimen tested by DEKRA is not the responsibility of DEKRA.

This Test Certificate expires at the latest on 18 February 2030 or expires upon withdrawal of one of the above mentioned standards.

Shanghai, 18 February 2025

Number: 6211980.01COC

DEKRA Testing and Certification (Shanghai) Ltd.


Kreny Lin
Certification Manager

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Annex

Document no. : 6211980.01COC

Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016

Model list				
Model	SiH-9.9kW-TH-PRO	SiH-10kW-TH-PRO	SiH-12kW-TH	SiH-14.9kW-TH
PV input ratings				
Max.PV input voltage（V）	1000			
Startup input voltage（V）	150			
Rated PV input voltage (V)	650			
MPPT voltage range (V)	150-950			
No. of MPPT trace paths	3			
Max. PV input current(A)	64(32/16/16)			
Max.Short-circuit current (A)	80(40/20/20)			
AC ratings (Grid)				
Rated output power (W)	9999	10000	12000	14999
Max. AC output apparent power (VA)	9999	10000	12000	14999
Rated AC output current (A)	15.2	15.2	18.2	22.8
Max.AC output current (A)	15.2	15.2	18.2	22.8
Rated output voltage (V)	3/N/PE 230/400			
Rated output frequency (Hz)	50			
Adjustable power factor (cosφ)	0.8 leading to 0.8 lagging			
AC output ratings (Backup)				
Rated output voltage (V)	230/400 (±2%)			
Frequency range (Hz)	50/60(±0.5%)			
Rated output power (W/VA)	9999/9999	10000/10000	12000/12000	14999/14999
Nominal current (A)	15.2	15.2	18.2	22.8
Battery ratings				
Battery type	Li-ion			
Battery voltage (V)	100-800			
Max charge/discharge current (A)	50/50			

Environment limit				
Weight (kg)	35			
Ingress protection (IP) rating	IP66			
Operating ambient temperature range	-25°C~60°C, de-rating > 45 °C	-25°C~60°C, de-rating > 45 °C	-25°C~60°C, de-rating > 45 °C	-25°C~60°C, de-rating > 45 °C
Max. operating altitude (m)	2000			
Protective class	Class I			

Model list				
Model	SiH-15kW-TH	SiH-19.9kW-TH	SiH-20kW-TH	SiH-25kW-TH
PV input ratings				
Max. PV input voltage（V）	1000			
Startup input voltage（V）	150			
Rated PV input voltage (V)	650			
MPPT voltage range (V)	150-950			
No. of MPPT trace paths	3			
Max. PV input current(A)	64(32/16/16)	80(32/32/16)		96(32/32/32)
Max. Short-circuit current (A)	80(40/20/20)	100(40/40/20)		120(40/40/40)
AC ratings (Grid)				
Rated output power (W)	15000	19999	20000	25000
Max. AC output apparent power (VA)	15000	19999	20000	25000
Rated AC output current (A)	22.8	30.3	30.3	37.9
Max. AC output current (A)	22.8	30.3	30.3	37.9
Rated output voltage (V)	3/N/PE 230/400			
Rated output frequency (Hz)	50			
Adjustable power factor (cosφ)	0.8 leading to 0.8 lagging			
AC output ratings (Backup)				
Rated output voltage (V)	230/400 (±2%)			
Frequency range (Hz)	50/60(±0.5%)			
Rated output power (W/VA)	15000 /15000	19999 /19999	20000/20000	25000/25000
Nominal current (A)	22.8	30.3	30.3	37.9

Battery ratings				
Battery type	Li-ion			
Battery voltage (V)	100-800			
Max charge/discharge current (A)	50/50			60/60
Environment limit				
Weight (kg)	35	36.5		38
Ingress protection (IP) rating	IP66			
Operating ambient temperature range	-25°C~60°C, de-rating > 45 °C	-25°C~60°C, de-rating > 45 °C	-25°C~60°C, de-rating > 45 °C	-25°C~60°C, de-rating > 45 °C
Max. operating altitude (m)	2000			
Protective class	Class I			

Model list			
Model	SiH-29.9kW-TH	SiH-30kW-TH	SiH-40kW-TH
PV input ratings			
Max. PV input voltage（V）	1000		
Startup input voltage（V）	150		
Rated PV input voltage（V）	650		
MPPT voltage range（V）	150-950		
No. of MPPT trace paths	3		
Max. PV input current(A)	64(32/32/32)		
Max. Short-circuit current（A）	80(40/20/20)		
AC ratings（Grid）			
Rated output power（W）	29999	30000	40000
Max. AC output apparent power（VA）	29999	30000	40000
Rated AC output current（A）	45.5	45.5	60.6
Max. AC output current（A）	45.5	45.5	60.6
Rated output voltage（V）	3/N/PE 230/400		
Rated output frequency（Hz）	50		
Adjustable power factor（cosφ）	0.8 leading to 0.8 lagging		
AC output ratings（Backup）			
Rated output voltage（V）	230/400（±2%）		
Frequency range（Hz）	50/60(±0.5%)		

Rated output power (W/VA)	29999 /29999	30000/30000	40000/40000
Nominal current (A)	45.5	45.5	60.6
Battery ratings			
Battery type	Li-ion		
Battery voltage (V)	100-800		
Max charge/discharge current (A)	60/60		
Environment limit			
Weight (kg)	38	38	38.5
Ingress protection (IP) rating	IP66		
Operating ambient temperature range	-25°C~60°C, de-rating > 45 °C	-25°C~60°C, de-rating > 45 °C	-25°C~60°C, de-rating > 45 °C
Max. operating altitude (m)	2000		
Protective class	Class I		

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