

CERTIFICATE OF CONFORMITY

CERTIFICATO DI CONFORMITÀ

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

For the product: Hybrid Inverter
Tipo prodotto:

Trade name: **Swatten**
Marchio:

Type/Model: SiH-10kW-TH, SiH-8kW-TH, SiH-6kW-TH, SiH-5kW-TH ,
Riferimento modello: SeH-5kW-TH, SeH-6kW-TH, SeH-8kW-TH, SeH-10kW-TH,
StH-5kW-TH, StH-6kW-TH, StH-8kW-TH, StH-10kW-TH with battery system:
SieB-H25K6-F, SieB-H22K4-F, SieB-H19K2-F, SieB-H16K0-F, SieB-H12K8-F,
SieB-H9600-F

Ratings: See Annex
Dati di targa:

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

Requirements: CEI 0-21:2022-03
Requisiti: CEI 0-21;V1:2022-11
Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6183794.50

Il presente certificato è rilasciato a causa di un esame da parte di DEKRA, i cui risultati sono riportati in un file riservato n. 6183794.50

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 his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

L'esame è stato effettuato su un unico campione del prodotto. L'attestato non comprende una valutazione della produzione del fabbricante. La conformità della sua produzione al campione sottoposto a prova da DEKRA non è responsabilità di DEKRA.

This Test Certificate expires at the latest on 28 April 2029 or expires upon withdrawal of one of the above mentioned standards.

Il presente certificato di prova scade al più tardi il 28 aprile 2029 o al momento del ritiro di una delle suddette norme.

Shanghai, 28 April 2024
Shanghai, 28 aprile 2024

Number: 6183794.01COC
Numero: 6183794.01COC

DEKRA Testing and Certification (Shanghai) Ltd.


Cliff Lin
Certification Manager

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PCA-141

Annex

Document no. : 6183794.01COC

Ratings of the testing Hybrid Inverter:

Valutazioni dell'invertitore ibrido di prova:

Model list				
Model	SiH-5kW-TH SeH-5kW-TH StH-5kW-TH	SiH-6kW-TH SeH-6kW-TH StH-6kW-TH	SiH-8kW-TH SeH-8kW-TH StH-8kW-TH	SiH-10kW-TH SeH-10kW-TH StH-10kW-TH
PV input ratings				
Max. PV input voltage (V)	1000			
Startup input voltage (V)	180	250		
Rated PV input voltage (V)	600			
MPPT voltage range (V)	150-950	200-950		
No. of MPPT trace paths	2			
Max. PV input current(A)	32(16/16)			48(16/32)
Max. Short-circuit current (A)	40(20/20)			60(20/40)
AC ratings(Grid)				
Rated output power (W)	5000	6000	8000	10000
Max. AC output apparent power (VA)	5500	6600	8800	11000
Max. AC output current (A)	8.4	10	13.3	16.7
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)	50H/60(±0.5%)			
Rated output power (W/VA)	5000 /5000	6000/6000	8000/8000	10000/10000
Nominal current (A)	7.6	9.1	12.1	15.2

Battery ratings				
Battery type	Li-ion			
Battery voltage (V)	150-600			
Max charge/discharge current (A)	30/30			
Environment limit				
Weight (kg)	31			
Ingress protection (IP) rating	IP65			
Operating ambient temperature range	-25°C~60°C, No derating below 45 °C	-25°C~60°C, No derating below 45 °C	-25°C~60°C, No derating below 45 °C	-25°C~60°C, No derating below 45 °C
Max. operating altitude (m)	3000			
Protective class	Class I			

Type of generating unit:

Tipologia di apparato:

Static Conversion Device <i>Dispositivo di conversione statica</i>	Interface Protection <i>Protezione di interfaccia</i>	Interface Protection Device <i>Dispositivo di interfaccia</i>	Rotating Generator Device <i>Dispositivo di generazione rotante</i>
Yes/Sì	Yes/Sì	Yes/Sì	No

Firmware release (SW): ARM: SIHXXTH_01_1_ARM.01.013

Revisione firmware (SW): Master DSP: SIHXXTH_01_1_MDSP.01.014

Slave DSP: SIHXXTH_01_1_SDSP.01.001

The battery used for testing with the Hybrid Inverter covered by this certificate:

La batteria utilizzata per i test con l'invertitore ibrido coperto dal presente certificato:

Model list						
Manufacturer	SieB-H-F Battery Energy Storage System-Home(HV)					
Battery Models	SieB-H9600-F	SieB-H12K8-F	SieB-H16K0-F	SieB-H19K2-F	SieB-H22K4-F	SieB-H25K6-F

Number of battery module in parallel	3	4	5	6	7	8
Nominal Voltage (V)	192	256	320	384	448	512
Nominal capacity (Ah)	50Ah	50Ah	50Ah	50Ah	50Ah	50Ah
CUS (Storage system useful capacity) (kWh)	8.64	11.52	14.4	17.28	20.16	23.04

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