

CERTIFICATE OF CONFORMITY

CERTIFICATO DI CONFORMITÀ

Issued to: SINENG ELECTRIC Co., Ltd.
Rilasciato a: No.6, Hehui Road, Huishan District 214174, Wuxi City, China

For the product: GRID-CONNECTED HYBRID INVERTER
Tipo prodotto:

Trade name:  **SINENG**
Marchio:

Type/Model: SN5.0HT, SN6.0HT, SN8.0HT, SN10HT, SN10HT-X, SN12HT, SN15HT
Riferimento modello:

Ratings: See Annex
Dati di targa:

Manufactured by: SINENG ELECTRIC Co., Ltd.
Costruttore: No.6, Hehui Road, Huishan District 214174, Wuxi City, China

Requirements: CEI 0-21:2022-03+V1:2022-11+V2:2024-01
Requisiti: *Regola tecnica di riferimento per la connessione di Utenti attivi e passivi alle reti BT delle imprese distributrici di energia elettrica*

The tested models are suitable for installation in systems with a total power greater than 11.08 kW.

I modelli testati sono adatti per l'installazione in sistemi con potenza di uscita maggiore di 11.08 kW.

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6198574.50

Il presente certificato è rilasciato a causa di un esame da parte di DEKRA, i cui risultati sono riportati in un file riservato n. 6198574.50

The examination has been carried out on one single specimen of the product. The certificate 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 esemplare del prodotto. Questo attestato di conformità è rilasciato sulla base dei risultati di prova riferiti nel rapporto sopra menzionato. La valutazione non include una verifica della produzione di serie né del luogo di produzione.

This Test Certificate expires at the latest on 2029-08-28 or expires upon withdrawal of one of the above mentioned standards.

Il presente certificato di prova scade al più tardi il 2029-08-28 o scade al momento del ritiro di uno dei suddetti standard.

Shanghai, 28 August 2024

Certificate Number: 6198574.01COC

DEKRA Testing and Certification (Shanghai) Ltd.


Cliff Lin
Certification Manager

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ESA-CER-F021 v4.1



PCA-141

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Ratings of the testing Hybrid Inverter:

Valutazioni dell'invertitore ibrido di prova:

Model	SN5.0 HT	SN6.0 HT	SN8.0 HT	SN10H T	SN10H T-X	SN12H T	SN15H T
PV input							
P pv Max(W)	7500	9000	12000	15000	15000	18000	22500
Vmax PV (Vdc) (absolute Max.)	1000						
Rated input voltage (Vdc)	620						
MPPT voltage range (Vdc)	160-950						
Vdc range @ full power (Vdc)	200-850	200-850	230-850	290-850	220-850	260-850	320-850
Number MPP trackers	2						
Number input strings	1	1	1	1	2/1	2/1	2/1
Max. PV input current (A)	18	18	18	18	32/18	32/18	32/18
Isc PV (absolute Max.) (A)	25	25	25	25	40/25	40/25	40/25
Battery (charge/discharge)							
Battery type	Rechargeable Li-ion Battery						
Battery Normal Voltage Range (Vdc)	160-600						
Max charge/discharge Current(A)	25			30			
Max charge/discharge Power(W)	7500	9000	12000	15000	15000	18000	18000
AC Grid (output)							
Rated Power (W)	5000	6000	8000	10000	10000	12000	15000
Max Apparent Power (VA)	5500	6600	8800	11000	11000	13200	16500
Rated output current (A)	7.3	8.7	11.6	14.5	14.5	17.4	21.8
Max. output current (A)	8.0	9.6	12.8	16.0	16.0	19.2	24.0
Normal AC Voltage (VAC)	3/N/PE 220/380, 230/400						
Frequency (Hz)	50/60						
Power factor(adjustable)	-0.8~0.8						
AC Load output (stand alone)							
Rated Output Power (W)	5000	6000	8000	10000	10000	12000	15000
Max. Apparent Power (VA)	7500 60 s	9000 60 s	12000 60 s	15000 60 s	15000 60 s	18000 60 s	18000 60 s
Normal Voltage (VAC)	220/380V, 230/400V						
Frequency (Hz)	50/60						
Input (AC)							
Rated Input Power (W)	7500	9000	12000	15000	15000	18000	22500
Normal Voltage (VAC)	220/380, 230/400						
Max. cont. current (A)	10.9	13.1	17.4	21.8	21.8	26.1	32.7
Frequency (Hz)	50/60						
Others							
Ingress protection (IP)	IP66						
Protective class	Class I						
Temperature (°C)	-25°C to +60°C						
Overvoltage category	OVC III (AC Main), OVC II (PV)						

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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/Si	Yes/Si	Yes/Si	No/No

REMARK: the device is capable to limit the I_{dc} to 0.5% of the nominal current

NOTA: Il dispositivo è in grado di limitare la I_{dc} allo 0.5% della corrente nominale

Hardware version: A05

Versione hardware: A05

Software version: V1.0

Versione software: V1.0

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:

Manufacturer	DAQIN New Energy TECH (TAIZHOU) Co., Ltd.			
Battery Models	T7	T10	T14	T17
Nominal Voltage	192 V	288 V	384 V	480 V
Nominal capacity	37 Ah	37 Ah	37 Ah	37 Ah
Battery System Capacity	7.1 kWh	10.66 kWh	14.21 kWh	17.76 kWh
Remark: The test certificate No. of the battery: R 50473036 001 The battery module supports a maximum of 4 parallel connected batteries, the charge/ discharge current is superimposed and is limited by the maximum current of the battery port of the Hybrid Inverter. The batteries are not integrated into the Hybrid Inverter and must be installed according to the local regulations.				

Testing Laboratory:

Laboratorio prove:

Testing Laboratory for CEI 0-21:2022-03

DEKRA Testing and Certification (Suzhou) Co., Ltd.

No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China

Accreditation Number: L5313 (CNAS-ILAC)

Testing Laboratory for EMC:

1. TÜV SÜD Certification and Testing (China) Co., Ltd.

Floor 1-4, Building B, No. 37, Tuanjie Road (Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu, China

2. Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.

No.103, Caobao Road, Xuhui District, Shanghai, China

Accreditation Number: L0130 (CNAS-ILAC)

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