

CERTIFICATE OF CONFORMITY

CERTIFICATO DI CONFORMITÀ

Issued to: Ningbo Sunways Technologies Co., Ltd.
Rilasciato a: No. 1, Second Road, Green Industrial Zone, Chongshou Town 315334 Cixi, Ningbo, Zhejiang, P.R. China

For the product: Hybrid Inverter
Tipo prodotto:

Trade name:
Marchio:

sunways

Type/Model: STH-3KTL-LSS, STH-3.6KTL-LSS, STH-4KTL-LS, STH-4.6KTL-LS, STH-5KTL-LS,
Riferimento modello: STH-6KTL-LS, STH-7.5KTL-LS, STH-8KTL-LS

Ratings: See Annex
Dati di targa:

Manufactured by: Ningbo Sunways Technologies Co., Ltd.
Costruttore: No. 1, Second Road, Green Industrial Zone, Chongshou Town 315334 Cixi, Ningbo, Zhejiang, P.R. 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. 6234687.50

Il presente certificato è rilasciato a causa di un esame da parte di DEKRA, i cui risultati sono riportati in un file riservato n. 6234687.50

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 2030-11-13 or expires upon withdrawal of one of the above mentioned standards.

Il presente certificato di prova scade al più tardi il 2030-11-13 o scade al momento del ritiro di uno dei suddetti standard.

Shanghai, 13 November 2025

Certificate Number: 6234687.01COC

DEKRA Testing and Certification (Shanghai) Ltd.

Kreny Lin
Certification Manager



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ESA-CER-F021 v4.1

PCA-141

Document no. : 6234687.01COC

Ratings of the testing Hybrid Inverter:

Valutazioni dell'invertitore ibrido di prova:

Model	STH-3KTL-LSS	STH-3.6KTL-LSS	STH-4KTL-LS	STH-4.6KTL-LS	STH-5KTL-LS	STH-6KTL-LS	STH-7.5KTL-LS	STH-8KTL-LS
PV								
Start-up Voltage (V)	58							
Max. DC Input Voltage (Vdc)	600							
Rated DC Input Voltage (Vdc)	360							
MPPT Voltage Range (Vdc)	80-550							
No. of MPP Trackers	1		2					
No. of DC Inputs per MPPT	1		1/1					
Max. Input Current (A)	20		20/20					
Max. Short-circuit Current (A)	25		25/25					
Battery								
Battery Type	Lithium battery (with BMS)/Lead Acid							
Battery Voltage Range (Vdc)	40-60							
Max. Charge Current (A)	80	80	100	100	120	120	160	160
Max. Discharge Current (A)	80	80	100	100	120	120	160	160
Output (Grid)								
Rated Output Power (W)	3000	3680	4000	4600	5000	6000	7500	8000
Max. Output Power (W)	3300	3680	4400	5060	5500	6600	8250	8800
AC Output Rated Apparent Power (VA)	3000	3680	4000	4600	5000	6000	7500	8000
Max. Apparent Power (VA)	3300	3680	4400	5060	5500	6600	8250	8800
Rated Output Voltage (Vac)	L/N/PE, 220/230							
Rated AC Frequency (Hz)	50/60							
AC Output Rated Current (A)	13	16	17.4	20	21.7	26.1	32.6	34.8
Max. Output Current (A)	15	16	20	23	25	30	37.5	40
Max. Output Overcurrent Protection (A)	50	50	50	50	80	80	80	80
Power Factor	0.8 leading ...0.8 lagging							
Output (Back-up)								
Rated Output Power (W)	3000	3680	4000	4600	5000	6000	7500	8000
Max. Output Power (W)	3300	3680	4400	5060	5500	6600	8250	8800
Back-up Output Rated Apparent Power (VA)	3000	3680	4000	4600	5000	6000	7500	8000
Max. Apparent Power (VA)	3300	3680	4400	5060	5500	6600	8250	8800
Back-up Output Rated Current (A)	13	16	17.4	20	21.7	26.1	32.6	34.8
Max. Output Current (A)	15	16	20	23	25	30	37.5	40
Rated Output Voltage (Vac)	L/N/PE, 220/230							
Rated AC Frequency (Hz)	50/60							
General information:								
Over voltage category: III(Mains), II(PV), Operating temperature range: - 25 °C to + 60 °C, Relative Humidity (%): 0-100, Protective class: I, Ingress protection rating: IP66, Operating Altitude (m): 3000.								

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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:

Battery Models	STE-OSP5120			
Manufacturer	Ningbo Sunways Technologies Co., Ltd.			
Total Energy [kwh]	5.12	10.24	15.36	20.48
Number of battery module in parallel	1	2	3	4
Cell Type	LFP (LiFe PO4)			
Nominal Voltage [V]	51.2	51.2	51.2	51.2
Operating Voltage Range [V]	40-58.4	40-58.4	40-58.4	40-58.4
Max. Charge/ Discharge Current [A]	100	120	120	120
Continue Discharge Output [kw]	5	6	6	6
Remark: The CB test certificate No. of the battery: FR_722867 When the batteries are connected in parallel, 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.				

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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/Sì	Yes/Sì	Yes/Sì	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: V01

Versione hardware: V01

Software version: V1.00

Versione software: V1.00

Testing Laboratory:

Laboratorio prove:

Testing Laboratory for CEI 0-21:2022-03+V1:2022-11+V2:2024-01

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

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

Accreditation Number: TL-1085 (IAS-ILAC)

Testing Laboratory for EMC:

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

No.103, Caobao Road, Xuhui District, Shanghai. China/200233

Accreditation Number: L0130 (SITIAS)

2. DEKRA Testing and Certification (Shanghai) Co., Ltd.

No.250, Jiangchangsan Road, Jing'an District, Shanghai, China

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