

Certificate of Conformity

Registered No.:

COCPVP07041/21E-04

File reference
PVP07041/21E-04

Test report No.
TRPVP07041/21E/04

Date of issue
2022-09-01

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Ningbo Sunways Technologies Co., Ltd.**
No. 1, Second Road, Green Industrial Zone, Chongshou Town, 315334
Cixi, Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA

Manufacturer: **Ningbo Sunways Technologies Co., Ltd.**
No. 1, Second Road, Green Industrial Zone, Chongshou Town, 315334
Cixi, Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA

Factory : **Ningbo Sunways Technologies Co., Ltd.**
No. 1, Second Road, Green Industrial Zone, Chongshou Town, 315334
Cixi, Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA

Product: HYBRID INVERTER

Type designation: STH-4KTL-HT, STH-5KTL-HT, STH-6KTL-HT
STH-8KTL-HT, STH-10KTL-HT, STH-12KTL-HT

Type of equipment: Interface device
 Interface protection
 Static conversion device
 Rotary generation device
Remark: The device is for plants of each power.

Certification fundamental(s): BOS-P-01 Rev. 00

Standard(s): CEI 0-21:2019-04 "Reference technical rules for the connection of active and passive users to the LV electrical Utilities"
See test report for detailed information.

Certification body: **TÜV NORD (HANGZHOU) CO., LTD.**
Room B409, Building 1, No 9 Jiujuan Road, Shangcheng District,
Hangzhou, Zhejiang Province, 310019, China.



Renewable Energy

ESS-T-012 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
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P.R. China

Accredited by CNAS according to ISO/IEC 17065:2012, certificate no. CNAS C183-P.

Testing laboratory:

Dongguan BALUN Testing Technology Co., Ltd.

Room 104/204/205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China.

Accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701.

Conclusion:

After verifying following documents, it is concluded that the product is in compliance with the requirements of CEI 0-21:2019-04.

ISO 9001 certificate:

Certificate no. 02819Q11035R0S, issued by Beijing Zhong-An-Zhi-Huan Certification Center Co., Ltd

Test report of CEI 0-21:2019-04:

Report no. BL-DG2180967-B01 issued by Dongguan BALUN Testing Technology Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

Test report of EMC:

Report no. C21-389-WT, issued by Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L0130.

Report no. 4861920333100, issued by TÜV SÜD Certification and Testing(China) Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L2282

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



Description of product(s):

Model types	STH-4KTL-HT	STH-5KTL-HT	STH-6KTL-HT	STH-8KTL-HT	STH-10KTL-HT	STH-12KTL-HT
General information:						
Firmware	V1.00					
Battery input parameters:						
Battery Type	Li-Ion					
Voltage range[V d.c.]	150-850	200-850				
Max. Charge Current [A d.c.] ...	25/25					
Max. Discharge Current [A d.c.] :						
AC output (Grid Side) parameters:						
Rated output voltage [V a.c.] ...	380/400, 3/N/PE					
Raged output frequency [Hz] ...	50/60					
Rated output power [W]	4000	5000	6000	8000	10000	12000
Max. apparent power [VA]	4400	5500	6600	8800	11000	13200
Max. output current [A a.c.]	6.7	8.3	10.0	13.3	16.5	20.0
Power factor cosφ [λ]	0.8 leading ...0.8 lagging					
AC output (Back-up) parameters:						
Rated output voltage [V a.c.] ...	380/400, 3/N/PE					
Raged output frequency [Hz] ...	50/60					
Rated output power [W]	4000	5000	6000	8000	10000	12000
Max. apparent power [VA]	4400	5500	6600	8800	11000	13200



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The inverters listed above may be installed with the following batteries:			
Manufacturer.....:	Ningbo Sunways Technologies Co., Ltd.		
Accumulator Model / Battery Model	STE-BS7	STE-BS10	STE-BS12
Capacity of each battery module (kWh)..:	2.56		
Number(s) of battery modules recommended by the manufacturer	3	4	5
Manufacturer.....:	Ningbo Sunways Technologies Co., Ltd.		
Accumulator Model / Battery Model	STE-BS15	STE-BS17	STE-BS20
Capacity of each battery module (kWh)..:	2.56		
Number(s) of battery modules recommended by the manufacturer	6	7	8
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.			


