

Certificate of Conformity

Registered No.:
COCPVP08198/23E-02

File reference
PVP08198/23E-02

Test report No.
TRPVP08198/23E/02

Date of issue
2024-01-09

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-15KTL-HT, STH-17KTL-HT, STH-20KTL-HT, STH-25KTL-HT, STH-29.9KTL-HT, STH-30KTL-HT, STH-33KTL-HT

Three phase, Firmware version: V1.00

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

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): CEI 0-21:2019-04
CEI 0-21;V1:2020-12
CEI 0-21:2022
CEI 0-21;V1:2022-11

See test report for detailed information.



Renewable Energy

BOS&ESS-T-004 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
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Certification body:**TÜV NORD (HANGZHOU) CO., LTD.**

Room B409, Building 1, No. 9, Jiujuan Road, Shangcheng District, Hangzhou City, Zhejiang Province, 310019, 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, CEI 0-21;V1:2020-12, CEI 0-21:2022, CEI 0-21;V1:2022-11

ISO 9001 certificate:

Certificate no. 02819Q11035R1S, issued by Beijing Zhong-An-Zhi-Huan Certification Center Co., Ltd.

Test report of CEI 0-21:2019-04, CEI 0-21;V1:2020-12, CEI 0-21:2022, CEI 0-21;V1:2022-11:

Report no. BL-DG2410067-201, issued by Dongguan BALUN Testing Technology Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

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).



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Version 1.0

Description of product(s):

Model types:	STH-15KTL-HT	STH-17KTL-HT	STH-20KTL-HT	STH-25KTL-HT
General information				
Firmware:	V1.00			
PV input				
Vmax PV [V d.c.]:	1000			
Mpp voltage range [V d.c.]:	200-850			
Isc PV [A d.c.]:	40/40			
Max. input current [A d.c.]:	32/32			
Overvoltage category (OVC):	II			
AC output (Grid Side) parameters				
Rated output voltage [V a.c.]:	3/N/PE~230/400V			
Raged output frequency [Hz]:	50/60			
Rated output power [W]:	15000	17000	20000	25000
Max. apparent power [VA]:	16500	18700	22000	27500
Max. output current [A a.c.]:	25	28.3	33.3	41.7
Power factor cosφ [λ]:	0.8 leading ... 0.8 lagging			
Overvoltage category (OVC):	III			
Battery parameters				
Battery Type:	Lithium battery (with BMS)			
Voltage range[V d.c.]:	200-800			
Max. Charge Current [Ad.c.]:	50			
Max. Discharge Current [Ad.c.]:	50			
AC output (Back-up) parameters:				
Rated output voltage [V a.c.]:	3/N/PE~230/400V			



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Raged output frequency [Hz]:	50/60			
Rated output power [W]:	15000	17000	20000	25000
Max. apparent power [VA]:	16500	18700	22000	27500
Max. output current [A a.c.]:	25.0	28.3	33.3	41.7

Model types:	STH-29.9KTL-HT	STH-30KTL-HT	STH-33KTL-HT
General information			
Firmware:	V1.00		
PV input			
Vmax PV [V d.c.]:	1000		
Mpp voltage range [V d.c.]:	200-850		
Isc PV [A d.c.]:	40/40		
Max. input current [A d.c.]:	32/32		
Overvoltage category (OVC):	II		
AC output (Grid Side) parameters			
Rated output voltage [V a.c.]:	3/N/PE~230/400V		
Raged output frequency [Hz]:	50/60		
Rated output power [W]:	29900	30000	33000
Max. apparent power [VA]:	29900	33000	36300
Max. output current [A a.c.]:	49.8	50.0	55.0
Power factor cosφ [λ]:	0.8 leading ... 0.8 lagging		
Overvoltage category (OVC):	III		
Battery parameters			
Battery Type:	Lithium battery (with BMS)		
Voltage range[V d.c.]:	200-800		




Max. Charge Current [Ad.c.]:	50		
Max. Discharge Current [Ad.c.]:	50		
AC output (Back-up) parameters:			
Rated output voltage [V a.c.]:	3/N/PE~230/400V		
Rated output frequency [Hz]:	50/60		
Rated output power [W]:	29900	30000	33000
Max. apparent power [VA]:	29900	33000	36300
Max. output current [A a.c.]:	49.8	50.0	55.0

Remark: The inverters listed above may be installed with the following batteries:

Manufacturer:	Ningbo Sunways Technologies Co., Ltd.				
Accumulator Model / Battery Model:	STE-ES10	STE-ES15	STE-ES20	STE-ES25	STE-ES30
Capacity of each battery module (kWh)	5.12				
Number(s) of battery modules recommended by the manufacturer	2	3	4	5	6
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.					

