

Compliance Document

No. D 104339 0068 Rev. 00

Holder of Certificate: **Ningbo Sunways Technologies Co.,Ltd.**

No. 1, Second Road
Green Industrial Zone
Chongshou Town
315334 Cixi, Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product:

Converter
Hybrid inverter with storage battery system

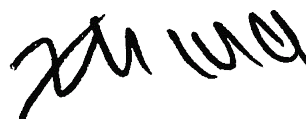
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Test report no.:

704092101633-00

Date,

2022-02-18



(Zhengdong Ma)

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Model(s): Hybrid inverter: **STH-3KTL-HSS, STH-3.6KTL-HSS, STH-3KTL-HS, STH-3.6KTL-HS, STH-4.2KTL-HS, STH-4.6KTL-HS, STH-5KTL-HS, STH-6KTL-HS, STH-7KTL-HS, STH-8KTL-HS**

Storage battery system: STE-BS5, STE-BS7, STE-BS10, STE-BS12, STE-BS15, STE-BS17, STE-BS20, STE-BS23

Parameters:

Hybrid inverter with storage battery system:	
1) Storage battery system parameters:	
Battery Type	Li-ion
Model	Manufacturer
STE-BS5	Ningbo Sunways Technologies Co., Ltd.
STE-BS7	Ningbo Sunways Technologies Co., Ltd.
STE-BS10	Ningbo Sunways Technologies Co., Ltd.
STE-BS12	Ningbo Sunways Technologies Co., Ltd.
STE-BS15	Ningbo Sunways Technologies Co., Ltd.
STE-BS17	Ningbo Sunways Technologies Co., Ltd.
STE-BS20	Ningbo Sunways Technologies Co., Ltd.
STE-BS23	Ningbo Sunways Technologies Co., Ltd.
BMS firmware version	1.04
2) Hybrid inverter parameters:	
a) PV input:	
Max. input voltage	d.c. 600V
MPPT voltage range	d.c. 100-550V
Max. input current	d.c. 15A (STH-3KTL-HSS, STH-3.6KTL-HSS) d.c. 2x15A (STH-3KTL-HS, STH-3.6KTL-HS, STH-4.2KTL-HS, STH-4.6KTL-HS, STH-5KTL-HS, STH-6KTL-HS, STH-7KTL-HS, STH-8KTL-HS)
Isc PV (absolute maximum)	d.c. 20A (STH-3KTL-HSS, STH-3.6KTL-HSS) d.c. 2x20A (STH-3KTL-HS, STH-3.6KTL-HS, STH-4.2KTL-HS, STH-4.6KTL-HS, STH-5KTL-HS, STH-6KTL-HS, STH-7KTL-HS, STH-8KTL-HS)
b) Battery input:	
Battery voltage range	d.c. 85-500V
Max. charge/discharge current	d.c. 30A/30A

Compliance Document

No. D 104339 0068 Rev. 00

c) AC-output (grid side):	
Rated output voltage	L/N/PE, a.c. 230V
Rated output frequency	50Hz
Rated output power	3000W (STH-3KTL-HSS, STH-3KTL-HS) 3600W (STH-3.6KTL-HSS, STH-3.6KTL-HS) 4200W (STH-4.2KTL-HS) 4600W (STH-4.6KTL-HS) 5000W (STH-5KTL-HS) 6000W (STH-6KTL-HS) 7000W (STH-7KTL-HS) 8000W (STH-8KTL-HS)
Max. apparent output power	3300VA (STH-3KTL-HSS, STH-3KTL-HS) 3960VA (STH-3.6KTL-HSS, STH-3.6KTL-HS) 4600VA (STH-4.2KTL-HS, STH-4.6KTL-HS) 5500VA (STH-5KTL-HS) 6600VA (STH-6KTL-HS) 7700VA (STH-7KTL-HS) 8000VA (STH-8KTL-HS)
Max. output current	a.c. 15A (STH-3KTL-HSS, STH-3KTL-HS) a.c. 18A (STH-3.6KTL-HSS, STH-3.6KTL-HS) a.c. 21A (STH-4.2KTL-HS, STH-4.6KTL-HS) a.c. 25A (STH-5KTL-HS) a.c. 28.7A (STH-6KTL-HS) a.c. 35A (STH-7KTL-HS) a.c. 36.3A (STH-8KTL-HS)
Displacement factor	0.8 leading ...0.8 lagging
d) AC-output (back-up):	
Rated output voltage	L/N/PE, a.c. 230V
Rated output frequency	50Hz
Max. apparent output power	3300VA (STH-3KTL-HSS, STH-3KTL-HS) 3960VA (STH-3.6KTL-HSS, STH-3.6KTL-HS) 4600VA (STH-4.2KTL-HS, STH-4.6KTL-HS) 5500VA (STH-5KTL-HS) 6600VA (STH-6KTL-HS) 7700VA (STH-7KTL-HS) 8000VA (STH-8KTL-HS)
f) Other parameters:	
Protection class:	I
Degree of protection:	IP65
Overvoltage category:	II (PV), III (MAINS)
Ambient temperature:	-30°C...+60°C

**Tested
according to:**

CEI 0-21:2019/V1:2020