



Product Service

CERTIFICATE

No. B 104339 0058 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

Certification Mark:



Product:

**Converter
HYBRID INVERTER**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704092101619-00

Valid until: 2026-09-07

Date, 2021-09-08

(Zhengdong Ma)



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Model(s): **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.**

Parameters: Please see page 3 to page 8

Tested according to: EN 62109-1:2010
 IEC 62109-1(ed.1)
 EN 62109-2:2011
 IEC 62109-2(ed.1)

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Models	STH-3KTL-HSS	STH-3.6KTL-HSS	STH-3KTL-HS	STH-3.6KTL-HS	STH-4.2KTL-HS
PV Port					
D.C. Max. Input Voltage:	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
D.C. MPPT Voltage Range:	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.
D.C. Max. Input Current:	15 Ad.c.	15 Ad.c.	15/15 Ad.c.	15/15 Ad.c.	15/15 Ad.c.
Isc PV:	20 Ad.c.	20 Ad.c.	20/20 Ad.c.	20/20 Ad.c.	20/20 Ad.c.
Battery Port					
Battery Voltage Range:	85-500 Vd.c.	85-500 Vd.c.	85-500 Vd.c.	85-500 Vd.c.	85-500 Vd.c.
Battery Max. Charge/Discharge Current:	30/30 Ad.c.	30/30 Ad.c.	30/30 Ad.c.	30/30 Ad.c.	30/30 Ad.c.
Battery Type:	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
AC Input Port					
AC Input Nominal Voltage:	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V
AC Input Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
AC Input Max. Current:	27.3 Aa.c.	32.7 Aa.c.	27.3 Aa.c.	32.7 Aa.c.	38.2 Aa.c.
AC Input Max. Apparent Power:	6000 VA	7200 VA	6000 VA	7200 VA	8400 VA



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Models	STH-3KTL-HSS	STH-3.6KTL-HSS	STH-3KTL-HS	STH-3.6KTL-HS	STH-4.2KTL-HS
AC Output Port					
A.C. Output Nominal Voltage:	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V
A.C. Output Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
A.C. Output Rated Power:	3000 W	3600 W	3000 W	3600 W	4200 W
A.C. Output Rated Apparent Power:	3000 VA	3600 VA	3000 VA	3600 VA	4200 VA
A.C. Output Max. Apparent Power:	3300 VA	3960 VA	3300 VA	3960 VA	4600 VA
A.C. Output Rated Current:	13 Aa.c.	15.7 Aa.c.	13 Aa.c.	15.7 Aa.c.	18.3 Aa.c.
A.C. Output Max. Current:	15 Aa.c.	18 Aa.c.	15 Aa.c.	18 Aa.c.	21 Aa.c.
Power Factor:	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging

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Models	STH-3KTL-HSS	STH-3.6KTL-HSS	STH-3KTL-HS	STH-3.6KTL-HS	STH-4.2KTL-HS
Back-up Output Port					
Back-up Output Nominal Voltage:	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V
Back-up Output Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Back-up Output Rated Power:	3000 W	3600 W	3000 W	3600 W	4200 W
Back-up Output Rated Apparent Power:	3000 VA	3600 VA	3000 VA	3600 VA	4200 VA
Back-up Output Max. Apparent Power:	3300 VA	3960 VA	3300 VA	3960 VA	4600 VA
General Data					
Operating Attitude:	3000 m				
Protective Class:	I				
Ingress Protection:	IP65				
Overvoltage Category:	II(DC), III(AC)				
Operating Temperature Range:	-30°C ... +60°C				
Communication:	WiFi / LAN(Optional)				
Inverter Topology:	Non-isolated				

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Models	STH-4.6KTL-HS	STH-5KTL-HS	STH-6KTL-HS	STH-7KTL-HS	STH-8KTL-HS
PV Port					
D.C. Max. Input Voltage:	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
D.C. MPPT Voltage Range:	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.	100-550 Vd.c.
D.C. Max. Input Current:	15/15 Ad.c.	15/15 Ad.c.	15/15 Ad.c.	15/15 Ad.c.	15/15 Ad.c.
Isc PV:	20/20 Ad.c.	20/20 Ad.c.	20/20 Ad.c.	20/20 Ad.c.	20/20 Ad.c.
Battery Port					
Battery Voltage Range:	85-500 Vd.c.	85-500 Vd.c.	85-500 Vd.c.	85-500 Vd.c.	85-500 Vd.c.
Battery Max. Charge/Discharge Current:	30/30 Ad.c.	30/30 Ad.c.	30/30 Ad.c.	30/30 Ad.c.	30/30 Ad.c.
Battery Type:	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
AC Input Port					
AC Input Nominal Voltage:	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V
AC Input Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
AC Input Max. Current:	41.8 Aa.c.	45.5 Aa.c.	54.5 Aa.c.	54.5 Aa.c.	54.5 Aa.c.
AC Input Max. Apparent Power:	9200 VA	10000 VA	12000 VA	12000 VA	12000 VA

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Models	STH-4.6KTL-HS	STH-5KTL-HS	STH-6KTL-HS	STH-7KTL-HS	STH-8KTL-HS
AC Output Port					
A.C. Output Nominal Voltage:	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V
A.C. Output Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
A.C. Output Rated Power:	4600 W	5000 W	6000 W	7000 W	8000 W
A.C. Output Rated Apparent Power:	4600 VA	5000 VA	6000 VA	7000 VA	8000 VA
A.C. Output Max. Apparent Power:	4600 VA	5500 VA	6600 VA	7700 VA	8000 VA
A.C. Output Rated Current:	20 Aa.c.	21.7 Aa.c.	26.1 Aa.c.	31.8 Aa.c.	36.3 Aa.c.
A.C. Output Max. Current:	21 Aa.c.	25 Aa.c.	28.7 Aa.c.	35 Aa.c.	36.3 Aa.c.
Power Factor:	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging	0.8leading... 0.8lagging

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Models	STH-4.6KTL-HS	STH-5KTL-HS	STH-6KTL-HS	STH-7KTL-HS	STH-8KTL-HS
Back-up Output Port					
Back-up Output Nominal Voltage:	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V	L/N/PE~ 220/230 V
Back-up Output Nominal Frequency:	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Back-up Output Rated Power:	4600 W	5000 W	6000 W	7000 W	8000 W
Back-up Output Rated Apparent Power:	4600 VA	5000 VA	6000 VA	7000 VA	8000 VA
Back-up Output Max. Apparent Power:	4600 VA	5500 VA	6600 VA	7700 VA	8000 VA
General Data					
Operating Attitude:	3000 m				
Protective Class:	I				
Ingress Protection:	IP65				
Overvoltage Category:	II(DC), III(AC)				
Operating Temperature Range:	-30°C ... +60°C				
Communication:	WiFi / LAN(Optional)				
Inverter Topology:	Non-isolated				