



Product Service

Attestation of Conformity

No. N8A 104339 0059 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

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 704092101619-00**Date,** 2021-09-08

(Zhengdong Ma)

Page 1 of 8

After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.



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Attestation of Conformity

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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 **EN 62109-1:2010**
according to: **EN 62109-2:2011**

Page 2 of 8

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Attestation of Conformity

No. N8A 104339 0059 Rev. 00

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

Page 3 of 8

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Attestation of Conformity

No. N8A 104339 0059 Rev. 00

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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No. N8A 104339 0059 Rev. 00

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



Attestation of Conformity

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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				