

Compliance Document

No. D 104339 0069 Rev. 00

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

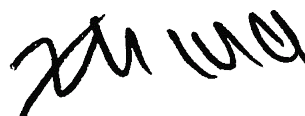
No. 1, Second Road
Green Industrial Zone
Chongshou Town
315334 Cixi, Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
HYBRID INVERTER

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 704092101627-00

Date, 2022-04-22



(Zhengdong Ma)

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Model(s): STH-3KTL-HSS, STH-3KTL-HS, STH-3.6KTL-HSS,
 STH-3.6KTL-HS, STH-4.2KTL-HS, STH-4.6KTL-HS,
 STH-5KTL-HS

Parameters:

Model Name	STH-3KTL-HSS	STH-3KTL-HS
PV Port Parameters		
D.C. Max. Input Voltage	600 Vd.c.	
D.C. Max. Input Current	15 Ad.c.	15/15 Ad.c.
Isc PV	20 Ad.c.	20/20 Ad.c.
D.C. MPPT Voltage Range	100...550 Vd.c.	
Battery Port Parameters		
Battery Voltage Range	85...500 Vd.c.	
Battery Max. Charge Current	30 Ad.c.	
Battery Max. Discharge Current	30 Ad.c.	
Battery Type	Li-Ion	
A.C. Input Port Parameters		
A.C. Input Nominal Voltage	230 Va.c.	
A.C. Input Nominal Frequency	50 Hz	
A.C. Input Max. Current	27,3 Aa.c.	
A.C. Input Max. Apparent Power	6000 VA	
A.C. Output Port Parameters		
A.C. Output Nominal Voltage	230 Va.c.	
A.C. Output Nominal Frequency	50 Hz	
A.C. Output Rated Power	3000 W	
A.C. Output Rated Apparent Power	3000 VA	
A.C. Output Max. Apparent Power	3300 VA	
A.C. Output Rated Current	13 Aa.c.	
A.C. Output Max. Current	15 Aa.c.	
Power Factor	0.8 leading...0.8 lagging	
Back-up Output Port Parameters		
Back-up Output Nominal Voltage	230 Va.c.	
Back-up Output Nominal Frequency	50 Hz	
Back-up Output Rated Power	3000 W	
Back-up Output Rated Apparent Power	3000 VA	
Back-up Output Max. Apparent Power	3300 VA	
Others		
Protection Class	I	
Ingress Protection	IP65	
Overtoltage Category	II(DC), III(MAINS)	
Operating Temperature Range	-30°C ... +60°C	
Inverter Topology	Non-isolated	

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Model Name	STH-3.6KTL-HSS	STH-3.6KTL-HS
PV Port Parameters		
D.C. Max. Input Voltage	600 Vd.c.	
D.C. Max. Input Current	15 Ad.c.	15/15 Ad.c.
Isc PV	20 Ad.c.	20/20 Ad.c.
D.C. MPPT Voltage Range	100...550 Vd.c.	
Battery Port Parameters		
Battery Voltage Range	85...500 Vd.c.	
Battery Max. Charge Current	30 Ad.c.	
Battery Max. Discharge Current	30 Ad.c.	
Battery Type	Li-Ion	
A.C. Input Port Parameters		
A.C. Input Nominal Voltage	230 Va.c.	
A.C. Input Nominal Frequency	50 Hz	
A.C. Input Max. Current	32,7 Aa.c.	
A.C. Input Max. Apparent Power	7200 VA	
A.C. Output Port Parameters		
A.C. Output Nominal Voltage	230 Va.c.	
A.C. Output Nominal Frequency	50 Hz	
A.C. Output Rated Power	3600 W	
A.C. Output Rated Apparent Power	3600 VA	
A.C. Output Max. Apparent Power	3960 VA	
A.C. Output Rated Current	15,7 Aa.c.	
A.C. Output Max. Current	18 Aa.c.	
Power Factor	0.8 leading...0.8 lagging	
Back-up Output Port Parameters		
Back-up Output Nominal Voltage	230 Va.c.	
Back-up Output Nominal Frequency	50 Hz	
Back-up Output Rated Power	3600 W	
Back-up Output Rated Apparent Power	3600 VA	
Back-up Output Max. Apparent Power	3960 VA	
Others		
Protection Class	I	
Ingress Protection	IP65	
Overvoltage Category	II(DC), III(MAINS)	
Operating Temperature Range	-30°C ... +60°C	
Inverter Topology	Non-isolated	

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Model Name	STH-4.2KTL-HS	STH-4.6KTL-HS	STH-5KTL-HS
PV Port Parameters			
D.C. Max. Input Voltage	600 Vd.c.		
D.C. Max. Input Current	15/15 Ad.c.		
Isc PV	20/20 Ad.c.		
D.C. MPPT Voltage Range	100...550 Vd.c.		
Battery Port Parameters			
Battery Voltage Range	85...500 Vd.c.		
Battery Max. Charge Current	30 Ad.c.		
Battery Max. Discharge Current	30 Ad.c.		
Battery Type	Li-Ion		
A.C. Input Port Parameters			
A.C. Input Nominal Voltage	230 Va.c.		
A.C. Input Nominal Frequency	50 Hz		
A.C. Input Max. Current	38,2 Aa.c.	41,8 Aa.c.	45,5 Aa.c.
A.C. Input Max. Apparent Power	8400 VA	9200 VA	10000 VA
A.C. Output Port Parameters			
A.C. Output Nominal Voltage	230 Va.c.		
A.C. Output Nominal Frequency	50 Hz		
A.C. Output Rated Power	4200 W	4600 W	5000 W
A.C. Output Rated Apparent Power	4200 VA	4600 VA	5000 VA
A.C. Output Max. Apparent Power	4600 VA	4600 VA	5000 VA
A.C. Output Rated Current	18,3 Aa.c.	20 Aa.c.	21,7 Aa.c.
A.C. Output Max. Current	21 Aa.c.	21 Aa.c.	21,7 Aa.c.
Power Factor	0.8 leading...0.8 lagging		
Back-up Output Port Parameters			
Back-up Output Nominal Voltage	230 Va.c.		
Back-up Output Nominal Frequency	50 Hz		
Back-up Output Rated Power	4200 W	4600 W	5000 W
Back-up Output Rated Apparent Power	4200 VA	4600 VA	5000 VA
Back-up Output Max. Apparent Power	4600 VA	4600 VA	5000 VA
Others			
Protection Class	I		
Ingress Protection	IP65		
Overvoltage Category	II(DC), III(MAINS)		
Operating Temperature Range	-30°C ... +60°C		
Inverter Topology	Non-isolated		

**Tested
according to:**

C10/11:2021