

# Compliance Document

No. D 104339 0043 Rev. 01

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

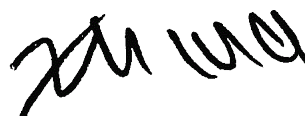
No. 1, Second Road  
Green Industrial Zone  
Chongshou Town  
315334 Cixi, Ningbo, Zhejiang  
PEOPLE'S REPUBLIC OF CHINA

**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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704092001223-01

**Date,** 2023-06-20



( Zhengdong Ma )

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## Model(s):

STH-4KTL-HT, STH-5KTL-HT, STH-6KTL-HT,  
 STH-8KTL-HT, STH-10KTL-HT, STH-12KTL-HT,  
 STH-4KTL-HT-P, STH-5KTL-HT-P, STH-6KTL-HT-P,  
 STH-8KTL-HT-P, STH-10KTL-HT-P, STH-12KTL-HT-P

## Parameters:

Model	STH-4KTL-HT	STH-5KTL-HT	STH-6KTL-HT
PV Port:			
Max. Input Voltage	1000 Vd.c.		
Max. Input Current	13/13 Ad.c.		
Isc PV	18/18 Ad.c.		
MPPT Voltage Range	150-850 Vd.c.	200-850 Vd.c.	
Battery Port:			
Battery Voltage Range	140-750 Vd.c.		
Battery Max. charge/discharge Current	25/25 Ad.c.		
Battery Type	Li-Ion		
A.C. Input Port:			
Input Nominal Voltage	3/N/PE~ 380/400V		
Input Nominal Frequency	50/60 Hz		
Input Max. Current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Input Max. Apparent Power	8000 VA	10000 VA	12000 VA
A.C. Output Port:			
Output Rated Power	4000 W	5000 W	6000 W
Output Rated Apparent Power	4000 VA	5000 VA	6000 VA
Output Max. Apparent Power	4400 VA	5500 VA	6600 VA
Output Max. Current	6.7 Aa.c.	8.3 Aa.c.	10 Aa.c.
Output Rated Current	5.8 Aa.c.	7.3 Aa.c.	8.7 Aa.c.
Output Nominal Voltage	3/N/PE~ 380/400V		
Output Nominal Frequency	50/60 Hz		
Power Factor	0.8 leading ...0.8 lagging		
Back-up Output Port:			
Back-up Output Nominal Voltage	3/N/PE~ 380/400V		
Back-up Output Nominal Frequency	50/60 Hz		
Back-up Output Rated Power	4000 W	5000 W	6000 W
Back-up Output Rated Apparent Power	4000 VA	5000 VA	6000 VA
Back-up Output Max. Apparent Power	4400 VA	5500 VA	6600 VA
Others			
Operating Temperature Range	-30...+60°C		
Enclosure: Protection Class	IP65		
Operating Altitude	3000 m		
Communication	WiFi / LAN(Optional)		
Inverter Topology	Non-isolated		

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Model	STH-8KTL-HT	STH-10KTL-HT	STH-12KTL-HT
PV Port:			
Max. Input Voltage	1000 Vd.c.		
Max. Input Current	13/13 Ad.c.		
Isc PV	18/18 Ad.c.		
MPPT Voltage Range	200-850 Vd.c.		
Battery Port:			
Battery Voltage Range	140-750 Vd.c.		
Battery Max. charge/discharge Current	25/25 Ad.c.		
Battery Type	Li-Ion		
A.C. Input Port:			
Input Nominal Voltage	3/N/PE~ 380/400V		
Input Nominal Frequency	50/60 Hz		
Input Max. Current	23.2 Aa.c.	23.9 Aa.c.	23.9 Aa.c.
Input Max. Apparent Power	16000 VA	16500 VA	16500 VA
A.C. Output Port:			
Output Rated Power	8000 W	10000 W	12000 W
Output Rated Apparent Power	8000 VA	10000 VA	12000 VA
Output Max. Apparent Power	8800 VA	11000 VA	13200 VA
Output Max. Current	13.3 Aa.c.	16.5 Aa.c.	20 Aa.c.
Output Rated Current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Output Nominal Voltage	3/N/PE~ 380/400V		
Output Nominal Frequency	50/60 Hz		
Power Factor	0.8 leading ...0.8 lagging		
Back-up Output Port			
Back-up Output Nominal Voltage	3/N/PE~ 380/400V		
Back-up Output Nominal Frequency	50/60 Hz		
Back-up Output Rated Power	8000 W	10000 W	12000 W
Back-up Output Rated Apparent Power	8000 VA	10000 VA	12000 VA
Back-up Output Max. Apparent Power	8800 VA	11000 VA	13200 VA
Others			
Operating Temperature Range	-30...+60°C		
Enclosure: Protection Class	IP65		
Operating Altitude	3000 m		
Communication	WiFi / LAN(Optional)		
Inverter Topology	Non-isolated		

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Model	STH-4KTL-HT-P	STH-5KTL-HT-P	STH-6KTL-HT-P
PV Port:			
Max. Input Voltage	1000 Vd.c.		
Max. Input Current	16/16Ad.c.		
Isc PV	18/18 Ad.c.		
MPPT Voltage Range	150-850 Vd.c.	200-850 Vd.c.	
Battery Port:			
Battery Voltage Range	140-750 Vd.c.		
Battery Max. charge/discharge Current	25/25 Ad.c.		
Battery Type	Li-Ion		
A.C. Input Port:			
Input Nominal Voltage	3/N/PE~ 380/400V		
Input Nominal Frequency	50/60 Hz		
Input Max. Current	11.6 Aa.c.	14.5 Aa.c.	17.4 Aa.c.
Input Max. Apparent Power	8000 VA	10000 VA	12000 VA
A.C. Output Port:			
Output Rated Power	4000 W	5000 W	6000 W
Output Rated Apparent Power	4000 VA	5000 VA	6000 VA
Output Max. Apparent Power	4400 VA	5500 VA	6600 VA
Output Max. Current	6.7 Aa.c.	8.3 Aa.c.	10 Aa.c.
Output Rated Current	5.8 Aa.c.	7.3 Aa.c.	8.7 Aa.c.
Output Nominal Voltage	3/N/PE~ 380/400V		
Output Nominal Frequency	50/60 Hz		
Power Factor	0.8 leading ...0.8 lagging		
Back-up Output Port:			
Back-up Output Nominal Voltage	3/N/PE~ 380/400V		
Back-up Output Nominal Frequency	50/60 Hz		
Back-up Output Rated Power	4000 W	5000 W	6000 W
Back-up Output Rated Apparent Power	4000 VA	5000 VA	6000 VA
Back-up Output Max. Apparent Power	4400 VA	5500 VA	6600 VA
Others			
Operating Temperature Range	-30...+60°C		
Enclosure: Protection Class	IP65		
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Output Nominal Frequency	50/60 Hz		
Power Factor	0.8 leading ...0.8 lagging		
Back-up Output Port			
Back-up Output Nominal Voltage	3/N/PE~ 380/400V		
Back-up Output Nominal Frequency	50/60 Hz		
Back-up Output Rated Power	8000 W	10000 W	12000 W
Back-up Output Rated Apparent Power	8000 VA	10000 VA	12000 VA
Back-up Output Max. Apparent Power	8800 VA	11000 VA	13200 VA
Others			
Operating Temperature Range	-30...+60°C		
Enclosure: Protection Class	IP65		
Operating Altitude	3000 m		
Communication	WiFi / LAN(Optional)		
Inverter Topology	Non-isolated		

**Tested  
according to:**

EN 50549-1:2019/AC:2019