

Compliance Document

No. D 104339 0079 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
GRID-CONNECTED PV INVERTER

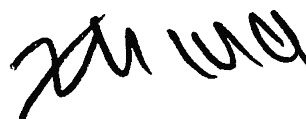
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Test report no.:

5040923003104-00

Date,

2023-08-22



(Zhengdong Ma)

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Model(s): STT-12KTL-P, STT-12KTL, STT-15KTL-P, STT-15KTL, STT-17KTL-P, STT-17KTL, STT-20KTL-P, STT-20KTL, STT-25KTL-P, STT-25KTL

Parameters:

Model	STT-12KTL-P	STT-15KTL-P	STT-17KTL-P
PV Input Parameters			
Max.Input Voltage	DC 1100 V		
Max.Input Current	DC 15/15 A	DC 15/30 A	DC 30/30 A
Isc PV	DC 20/20 A	DC 20/40 A	DC 40/40 A
MPPT Voltage Range	DC 160 V, ..., 1000 V		
AC Output Parameters			
Rated Power	12000 W	15000 W	17000 W
Rated Apparent Power	12000 VA	15000 VA	17000 VA
Max.Apparent Power	13200 VA	16500 VA	18700 VA
Rated Voltage	3/N/PE AC 230/400 V		
Max.Current	AC 20 A	AC 25 A	AC 28.4 A
Rated Current	AC 17.4 A	AC 21.7 A	AC 24.6 A
Rated Frequency	50 Hz		
Power Factor	0.8 leading, ..., 0.8 lagging		

Model	STT-12KTL	STT-15KTL	STT-17KTL
PV Input Parameters			
Max.Input Voltage	DC 1100 V		
Max.Input Current	DC 11/11 A	DC 11/22 A	DC 22/22 A
Isc PV	DC 15/15 A	DC 15/30 A	DC 30/30 A
MPPT Voltage Range	DC 200 V, ..., 950 V		
AC Output Parameters			
Rated Power	12000 W	15000 W	17000 W
Rated Apparent Power	12000 VA	15000 VA	17000 VA
Max.Apparent Power	13200 VA	16500 VA	18700 VA
Rated Voltage	3/N/PE AC 230/400 V		
Max.Current	AC 20 A	AC 25 A	AC 28.4 A
Rated Current	AC 17.4 A	AC 21.7 A	AC 24.6 A
Rated Frequency	50 Hz		
Power Factor	0.8 leading, ..., 0.8 lagging		

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Model	STT-20KTL-P	STT-25KTL-P
PV Input Parameters		
Max.Input Voltage	DC 1100 V	
Max.Input Current	DC 30/30 A	
Isc PV	DC 40/40 A	
MPPT Voltage Range	DC 160 V, ..., 1000 V	
AC Output Parameters		
Rated Power	20000 W	25000 W
Rated Apparent Power	20000 VA	25000 VA
Max.Apparent Power	22000 VA	25000 VA
Rated Voltage	3/N/PE AC 230/400 V	
Max.Current	AC 31.9 A	AC 39 A
Rated Current	AC 29 A	AC 36.2 A
Rated Frequency	50 Hz	
Power Factor	0.8 leading, ..., 0.8 lagging	

Model	STT-20KTL	STT-25KTL
PV Input Parameters		
Max.Input Voltage	DC 1100 V	
Max.Input Current	DC 22/22 A	
Isc PV	DC 30/30 A	
MPPT Voltage Range	DC 200 V, ..., 950 V	
AC Output Parameters		
Rated Power	20000 W	25000 W
Rated Apparent Power	20000 VA	25000 VA
Max.Apparent Power	22000 VA	25000 VA
Rated Voltage	3/N/PE AC 230/400 V	
Max.Current	AC 31.9 A	AC 39 A
Rated Current	AC 29 A	AC 36.2 A
Rated Frequency	50 Hz	
Power Factor	0.8 leading, ..., 0.8 lagging	

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Protection settings (Manufacturer default settings)

Protection Function	Type A Power Generating Modules	
	Trip setting	Time Delay Setting
U/V	$V\phi-\phi - 20\%$	2.50 s
O/V st 1	$V\phi-\phi + 14\%$	1 s
O/V st 2	$V\phi-\phi + 19\%$	0.5 s
U/F st 1	47.5 Hz	20 s
U/F st 2	47 Hz	0.5 s
OF	52 Hz	0.5 s
Reconnection time delay after interface protection	75 s as default (adjustable)	
Loss of Mains (RoCoF)	1 Hzs ⁻¹ time delay 0.5 s	
Tolerances on trip values: - voltage: $\pm 1.5\%$; - frequency: $\pm 0.2\%$;		
Unauthorised access to factory safety parameters setting and software should be prohibited. A reset to the factory safety parameters requires retesting and verification in conjunction with the end-use system. Protection integrated in inverter can not be used as an alternative central interface protection device at connection point.		

Tested according to:

G99/1-6:2020