

Compliance Document

No. D 091566 0087 Rev. 00

Holder of Certificate: **SINENG ELECTRIC CO.,LTD.**

No.6 Hehui Road, Huishan District
214174 Wuxi City
PEOPLE'S REPUBLIC OF CHINA

Product:

Converter
GRID-CONNECTED 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.:

4840924277600

Date,

2024-05-16



(Ming Gu)

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Model(s): SN5.0HT, SN6.0HT, SN8.0HT, SN10HT-X, SN10HT, SN12HT, SN15HT

Parameters:

Model	SN5.0HT	SN6.0HT	SN8.0HT	SN10HT
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	160, ..., 950Vd.c.			
Max. input current	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.
Isc PV (absolute maximum)	25/25 Ad.c.	25/25 Ad.c.	25/25 Ad.c.	25/25 Ad.c.
The max. number of strings per MPPT	1/1	1/1	1/1	1/1
Battery input				
Battery type	Li-ion			
Battery voltage range	160, ..., 600 Vd.c.			
Max. charge current	25 Ad.c.	25 Ad.c.	25 Ad.c.	25 Ad.c.
Max. discharge current	25 Ad.c.	25 Ad.c.	25 Ad.c.	25 Ad.c.
AC output/input (Grid side)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.			
Nominal frequency	50 / 60 Hz			
Nominal output power	5 kW	6 kW	8 kW	10 kW
Rated apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Max. apparent output power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA
Rated output current	7.6 Aa.c.@ 220/380 Va.c. 7.3 Aa.c.@ 230/400 Va.c.	9.1 Aa.c.@ 220/380 Va.c. 8.7 Aa.c.@ 230/400 Va.c.	12.2 Aa.c.@ 220/380 Va.c. 11.6 Aa.c.@ 230/400 Va.c.	15.2 Aa.c.@ 220/380 Va.c. 14.5 Aa.c.@ 230/400 Va.c.
Max. output current	8.4 Aa.c.@ 220/380 Va.c. 8.0 Aa.c.@ 230/400 Va.c.	10.0 Aa.c.@ 220/380 Va.c. 9.6 Aa.c.@ 230/400 Va.c.	13.4 Aa.c.@ 220/380 Va.c. 12.8 Aa.c.@ 230/400 Va.c.	16.7 Aa.c.@ 220/380 Va.c. 16.0 Aa.c.@ 230/400 Va.c.
Rated(Max.) Input Power	7.5 kW	9 kW	12 kW	15 kW
Rated(Max.) Current from Grid	11.4 Aa.c.@ 220/380 Va.c. 10.9 Aa.c.@ 230/400 Va.c.	13.7 Aa.c.@ 220/380 Va.c. 13.1 Aa.c.@ 230/400 Va.c.	18.2 Aa.c.@ 220/380 Va.c. 17.4 Aa.c.@ 230/400 Va.c.	22.8 Aa.c.@ 220/380 Va.c. 21.8 Aa.c.@ 230/400 Va.c.
AC output (Back-up)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.			
Nominal frequency	50 / 60 Hz			
Nominal output power	5 kW	6 kW	8 kW	10 kW
Rated(Max.) apparent output power	5 kVA	6 kVA	8 kVA	10 kVA
Rated(Max.) output current	7.6 Aa.c.@ 220/380 Va.c. 7.3 Aa.c.@	9.1 Aa.c.@ 220/380 Va.c. 8.7 Aa.c.@	12.2 Aa.c.@ 220/380 Va.c. 11.6 Aa.c.@	15.2 Aa.c.@ 220/380 Va.c. 14.5 Aa.c.@

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	230/400 Va.c.	230/400 Va.c.	230/400 Va.c.	230/400 Va.c.
General				
Power factor range	0.8(leading), ..., 0.8(lagging)			
Protective class	I			
Ingress protection	IP 66			
Operating temperature Range	-25 °C, ..., +60 °C			
Overvoltage category	II(DC), III(AC)			
Max. operation altitude	4000 m (more than 3000m derating)			
Dimensions(W/H/D)	577*537*206 mm			
Weight	26 kg			

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Model	SN10HT-X	SN12HT	SN15HT
PV input			
Max. input voltage	1000 Vd.c.		
MPPT voltage range	160, ..., 950Vd.c.		
Max. input current	32/18 Ad.c.	32/18 Ad.c.	32/18 Ad.c.
Isc PV (absolute maximum)	40/25 Ad.c.	40/25 Ad.c.	40/25 Ad.c.
The max. number of strings per MPPT	2/1	2/1	2/1
Battery input			
Battery type	Li-ion		
Battery voltage range	160, ..., 600 Vd.c.		
Max. charge current	30 Ad.c.	30 Ad.c.	30 Ad.c.
Max. discharge current	30 Ad.c.	30 Ad.c.	30 Ad.c.
AC output/input (Grid side)			
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.		
Nominal frequency	50 / 60 Hz		
Nominal output power	10 kW	12 kW	15 kW
Rated apparent output power	10 kVA	12 kVA	15 kVA
Max. apparent output power	11 kVA	13.2 kVA	16.5 kVA
Rated output current	15.2 Aa.c.@ 220/380 Va.c. 14.5 Aa.c.@ 230/400 Va.c.	18.2 Aa.c.@ 220/380 Va.c. 17.4 Aa.c.@ 230/400 Va.c.	22.8 Aa.c.@ 220/380 Va.c. 21.8 Aa.c.@ 230/400 Va.c.
Max. output current	16.7 Aa.c.@ 220/380 Va.c. 16.0 Aa.c.@ 230/400 Va.c.	20.0 Aa.c.@ 220/380 Va.c. 19.2 Aa.c.@ 230/400 Va.c.	25.0 Aa.c.@ 220/380 Va.c. 24.0 Aa.c.@ 230/400 Va.c.
Rated(Max.) Input Power	15 kW	18 kW	22.5 kW
Rated(Max.) Current from Grid	22.8 Aa.c.@ 220/380 Va.c. 21.8 Aa.c.@ 230/400 Va.c.	27.3 Aa.c.@ 220/380 Va.c. 26.1 Aa.c.@ 230/400 Va.c.	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c.
AC output (Back-up)			
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.		
Nominal frequency	50 / 60 Hz		
Nominal output power	10 kW	12 kW	15 kW
Rated(Max.) apparent output power	10 kVA	12 kVA	15 kVA
Rated(Max.) output current	15.2 Aa.c.@ 220/380 Va.c. 14.5 Aa.c.@ 230/400 Va.c.	18.2 Aa.c.@ 220/380 Va.c. 17.4 Aa.c.@ 230/400 Va.c.	22.8 Aa.c.@ 220/380 Va.c. 21.8 Aa.c.@ 230/400 Va.c.
General			
Power factor range	0.8(leading), ..., 0.8(lagging)		
Protective class	I		

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Ingress protection	IP 66
Operating temperature Range	-25 °C, ..., +60 °C
Overvoltage category	II(DC), III(AC)
Max. operation altitude	4000 m (more than 3000m derating)
Dimensions(W/H/D)	577*537*206 mm
Weight	29 kg

**Tested
according to:**

EN IEC 61000-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021
EN 61000-3-12:2011
EN IEC 61000-3-11:2019