



Product Service

CERTIFICATE

No. B 091566 0083 Rev. 01

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

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

Certification Mark:



Product:

Converter

GRID-CONNECTED HYBRID INVERTER

Model(s):

SN5.0HT, SN6.0HT, SN8.0HT, SN10HT-X,
SN10HT, SN12HT, SN15HT, SN5.0HT-M1,
SN6.0HT-M1, SN8.0HT-M1, SN10HT-X-M1,
SN10HT-M1, SN12HT-M1, SN15HT-M1

Parameters:

See next pages

Tested according to:

IEC 62109-1:2010
EN 62109-1:2010
IEC 62109-2:2011
EN 62109-2:2011
IEC 62477-1:2012
IEC 62477-1:2012/AMD1:2016
EN 62477-1:2012/A12:2021

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.:

704092407511-01

Valid until:

2030-02-16

Date, 2025-02-17

(Zhengdong Ma)

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No. B 091566 0083 Rev. 01

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.	9.1 Aa.c.@ 220/380 Va.c.	12.2 Aa.c.@ 220/380 Va.c.	15.2 Aa.c.@ 220/380 Va.c.
	7.3 Aa.c.@ 230/400 Va.c.	8.7 Aa.c.@ 230/400 Va.c.	11.6 Aa.c.@ 230/400 Va.c.	14.5 Aa.c.@ 230/400 Va.c.
Max. output current	8.4 Aa.c.@ 220/380 Va.c.	10.0 Aa.c.@ 220/380 Va.c.	13.4 Aa.c.@ 220/380 Va.c.	16.7 Aa.c.@ 220/380 Va.c.
	8.0 Aa.c.@ 230/400 Va.c.	9.6 Aa.c.@ 230/400 Va.c.	12.8 Aa.c.@ 230/400 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.	13.7 Aa.c.@ 220/380 Va.c.	18.2 Aa.c.@ 220/380 Va.c.	22.8 Aa.c.@ 220/380 Va.c.
	10.9 Aa.c.@ 230/400 Va.c.	13.1 Aa.c.@ 230/400 Va.c.	17.4 Aa.c.@ 230/400 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.	9.1 Aa.c.@ 220/380 Va.c.	12.2 Aa.c.@ 220/380 Va.c.	15.2 Aa.c.@ 220/380 Va.c.
	7.3 Aa.c.@ 230/400 Va.c.	8.7 Aa.c.@ 230/400 Va.c.	11.6 Aa.c.@ 230/400 Va.c.	14.5 Aa.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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No. B 091566 0083 Rev. 01

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		
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		

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No. B 091566 0083 Rev. 01

Model	SN5.0HT-M1	SN6.0HT-M1	SN8.0HT-M1	SN10HT-M1
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
Nominal Apparent Output Power	5 kVA	6 kVA	8 kVA	10 kVA
Rated(Max.) Apparent Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA
Nominal Output Current	7.6 Aa.c.@ 220/380 Va.c.	9.1 Aa.c.@ 220/380 Va.c.	12.2 Aa.c.@ 220/380 Va.c.	15.2 Aa.c.@ 220/380 Va.c.
	7.3 Aa.c.@ 230/400 Va.c.	8.7 Aa.c.@ 230/400 Va.c.	11.6 Aa.c.@ 230/400 Va.c.	14.5 Aa.c.@ 230/400 Va.c.
Rated(Max.) Output Current	8.4 Aa.c.@ 220/380 Va.c.	10.0 Aa.c.@ 220/380 Va.c.	13.4 Aa.c.@ 220/380 Va.c.	16.7 Aa.c.@ 220/380 Va.c.
	8.0 Aa.c.@ 230/400 Va.c.	9.6 Aa.c.@ 230/400 Va.c.	12.8 Aa.c.@ 230/400 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.	13.7 Aa.c.@ 220/380 Va.c.	18.2 Aa.c.@ 220/380 Va.c.	22.8 Aa.c.@ 220/380 Va.c.
	10.9 Aa.c.@ 230/400 Va.c.	13.1 Aa.c.@ 230/400 Va.c.	17.4 Aa.c.@ 230/400 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			
Rated(Max.) 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.	9.1 Aa.c.@ 220/380 Va.c.	12.2 Aa.c.@ 220/380 Va.c.	15.2 Aa.c.@ 220/380 Va.c.
	7.3 Aa.c.@ 230/400 Va.c.	8.7 Aa.c.@ 230/400 Va.c.	11.6 Aa.c.@ 230/400 Va.c.	14.5 Aa.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			
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Model	SN10HT-X-M1	SN12HT-M1	SN15HT-M1
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
Nominal Apparent Output Power	10 kVA	12 kVA	15 kVA
Rated(Max.) Apparent Output Power	11 kVA	13.2 kVA	16.5 kVA
Nominal 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.
Rated(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		
Rated(Max.) 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		
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)		
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