



Product Service

# CERTIFICATE

No. B 091566 0083 Rev. 00

**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**

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

**Test report no.:** 704092407511-00

**Valid until:** 2029-04-24

**Date,** 2024-04-25

( Zhengdong Ma )



# CERTIFICATE

No. B 091566 0083 Rev. 00

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

**Parameters:** Please see pages 3 to 4

**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

# CERTIFICATE

No. B 091566 0083 Rev. 00

Model	SN5.0HT	SN6.0HT	SN8.0HT	SN10HT
<b>PV input</b>				
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
<b>Battery input</b>				
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.
<b>AC output/input (Grid side)</b>				
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.
<b>AC output (Back-up)</b>				
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.
<b>General</b>				
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			

# CERTIFICATE

No. B 091566 0083 Rev. 00

Model	SN10HT-X	SN12HT	SN15HT
<b>PV input</b>			
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
<b>Battery input</b>			
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.
<b>AC output/input (Grid side)</b>			
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.
<b>AC output (Back-up)</b>			
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.
<b>General</b>			
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		