



Product Service

Attestation of Conformity

No. N8A 091566 0145 Rev. 00

Holder of Attestation: **SINENG ELECTRIC CO.,LTD.**No.6 Hehui Road, Huishan District
214174 Wuxi City
PEOPLE'S REPUBLIC OF CHINA**Product:** **Hybrid Energy Storage System**
HTC Energy storage system**Model(s):** SN15HTC-25.7, SN15HTC-19.2, SN15HTC-12.8,
SN15HTC-6.4, SN12HTC-25.7, SN12HTC-19.2,
SN12HTC-12.8, SN12HTC-6.4, SN10HTC-25.7,
SN10HTC-19.2, SN10HTC-12.8, SN10HTC-6.4,
SN8.0HTC-25.7, SN8.0HTC-19.2, SN8.0HTC-12.8,
SN8.0HTC-6.4, SN6.0HTC-25.7, SN6.0HTC-19.2,
SN6.0HTC-12.8, SN6.0HTC-6.4, SN5.0HTC-25.7,
SN5.0HTC-19.2, SN5.0HTC-12.8, SN5.0HTC-6.4**Parameters:** See next pages**Tested according to:** EN 62109-1:2010
EN 62109-2:2011
EN 62477-1:2012/A12:2021

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 704092516018-00**Date,** 2025-12-02

(Kai Zhao)

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Models	SN15HTC-6.4	SN15HTC-12.8	SN15HTC-19.2	SN15HTC-25.7
Battery data				
Module number	1	2	3	4
Energy	6.4 kWh	12.8 kWh	19.2 kWh	25.7 kWh
Battery nominal voltage	412.8 Vd.c.			
Nominal capacity	15.58 Ah	31.16 Ah	46.74 Ah	62.33 Ah
Rated (max.) discharge / charge current	7.9 Ad.c.	15.8 Ad.c.	23.7 Ad.c.	31.6 Ad.c.
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	160, ..., 950 Vd.c.			
Max. input current	18/18/18 Ad.c.			
Isc PV (absolute maximum)	25/25/25 Ad.c.			
AC output/input (Grid side)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			
Nominal frequency	50 / 60 Hz			
Nominal active output power	15 kW			
Nominal apparent output power	15 kVA			
Rated (max.) apparent output power	16.5 kVA			
Nominal output current	22.8 Aa.c.@ 220/380 Va.c. 21.8 Aa.c.@ 230/400 Va.c. 20.9 Aa.c.@ 240/415 Va.c.			
Rated (max.) output current	25.0 Aa.c.@ 220/380 Va.c. 24.0 Aa.c.@ 230/400 Va.c. 23.0 Aa.c.@ 240/415 Va.c.			
Rated (max.) active input power	22.5 kW			
Rated (max.) input current	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.			
Power factor range	0.8(leading), ..., 0.8(lagging)			
AC output (Back-up)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			

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Nominal frequency	50 / 60 Hz
Rated (max.) active output power (On-Grid)	22.5 kW
Rated (max.) apparent output power (On-Grid)	22.5 kVA
Rated (max.) output current (On-Grid)	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.
Rated (max.) active output power (Off-Grid)	15 kW
Rated (max.) apparent output power (Off-Grid)	15 kVA
Rated (max.) output current (Off-Grid)	22.8 Aa.c.@ 220/380 Va.c. 21.8 Aa.c.@ 230/400 Va.c. 20.9 Aa.c.@ 240/415 Va.c.
Power factor range	0.8(leading), ..., 0.8(lagging)
General parameters	
Inverter topology	Non-isolated
Protective class	I
Ingress protection	IP66
Operating temperature range	-20°C, ..., +55°C
Overvoltage category	III (Grid, Backup), II (PV)

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Models	SN12HTC-6.4	SN12HTC-12.8	SN12HTC-19.2	SN12HTC-25.7
Battery data				
Module number	1	2	3	4
Energy	6.4 kWh	12.8 kWh	19.2 kWh	25.7 kWh
Battery nominal voltage	412.8 Vd.c.			
Nominal capacity	15.58 Ah	31.16 Ah	46.74 Ah	62.33 Ah
Rated (max.) discharge / charge current	7.9 Ad.c.	15.8 Ad.c.	23.7 Ad.c.	31.6 Ad.c.
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	160, ..., 950 Vd.c.			
Max. input current	18/18/18 Ad.c.			
Isc PV (absolute maximum)	25/25/25 Ad.c.			
AC output/input (Grid side)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			
Nominal frequency	50 / 60 Hz			
Nominal active output power	12 kW			
Nominal apparent output power	12 kVA			
Rated (max.) apparent output power	13.2 kVA			
Nominal output current	18.2 Aa.c.@ 220/380 Va.c. 17.4 Aa.c.@ 230/400 Va.c. 16.7 Aa.c.@ 240/415 Va.c.			
Rated (max.) output current	20.0 Aa.c.@ 220/380 Va.c. 19.2 Aa.c.@ 230/400 Va.c. 18.4 Aa.c.@ 240/415 Va.c.			
Rated (max.) active input power	22.5 kW			
Rated (max.) input current	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.			
Power factor range	0.8(leading), ..., 0.8(lagging)			
AC output (Back-up)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			

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Nominal frequency	50 / 60 Hz
Rated (max.) active output power (On-Grid)	22.5 kW
Rated (max.) apparent output power (On-Grid)	22.5 kVA
Rated (max.) output current (On-Grid)	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.
Rated (max.) active output power (Off-Grid)	12 kW
Rated (max.) apparent output power (Off-Grid)	12 kVA
Rated (max.) output current (Off-Grid)	18.2 Aa.c.@ 220/380 Va.c. 17.4 Aa.c.@ 230/400 Va.c. 16.7 Aa.c.@ 240/415 Va.c.
Power factor range	0.8(leading), ..., 0.8(lagging)
General parameters	
Inverter topology	Non-isolated
Protective class	I
Ingress protection	IP66
Operating temperature range	-20°C, ..., +55°C
Overvoltage category	III (Grid, Backup), II (PV)

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Models	SN10HTC-6.4	SN10HTC-12.8	SN10HTC-19.2	SN10HTC-25.7
Battery data				
Module number	1	2	3	4
Energy	6.4 kWh	12.8 kWh	19.2 kWh	25.7 kWh
Battery nominal voltage	412.8 Vd.c.			
Nominal capacity	15.58 Ah	31.16 Ah	46.74 Ah	62.33 Ah
Rated (max.) discharge / charge current	7.9 Ad.c.	15.8 Ad.c.	23.7 Ad.c.	28.0 Ad.c.
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	160, ..., 950 Vd.c.			
Max. input current	18/18/18 Ad.c.			
Isc PV (absolute maximum)	25/25/25 Ad.c.			
AC output/input (Grid side)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			
Nominal frequency	50 / 60 Hz			
Nominal active output power	10 kW			
Nominal apparent output power	10 kVA			
Rated (max.) apparent output power	11 kVA			
Nominal output current	15.2 Aa.c.@ 220/380 Va.c. 14.5 Aa.c.@ 230/400 Va.c. 13.9 Aa.c.@ 240/415 Va.c.			
Rated (max.) output current	16.7 Aa.c.@ 220/380 Va.c. 16.0 Aa.c.@ 230/400 Va.c. 15.3 Aa.c.@ 240/415 Va.c.			
Rated (max.) active input power	22.5 kW			
Rated (max.) input current	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.			
Power factor range	0.8(leading), ..., 0.8(lagging)			
AC output (Back-up)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			

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Nominal frequency	50 / 60 Hz
Rated (max.) active output power (On-Grid)	22.5 kW
Rated (max.) apparent output power (On-Grid)	22.5 kVA
Rated (max.) output current (On-Grid)	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.
Rated (max.) active output power (Off-Grid)	10 kW
Rated (max.) apparent output power (Off-Grid)	10 kVA
Rated (max.) output current (Off-Grid)	15.2 Aa.c.@ 220/380 Va.c. 14.5 Aa.c.@ 230/400 Va.c. 13.9 Aa.c.@ 240/415 Va.c.
Power factor range	0.8(leading), ..., 0.8(lagging)
General parameters	
Inverter topology	Non-isolated
Protective class	I
Ingress protection	IP66
Operating temperature range	-20°C, ..., +55°C
Overvoltage category	III (Grid, Backup), II (PV)

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Models	SN8.0HTC-6.4	SN8.0HTC-12.8	SN8.0HTC-19.2	SN8.0HTC-25.7
Battery data				
Module number	1	2	3	4
Energy	6.4 kWh	12.8 kWh	19.2 kWh	25.7 kWh
Battery nominal voltage	412.8 Vd.c.			
Nominal capacity	15.58 Ah	31.16 Ah	46.74 Ah	62.33 Ah
Rated (max.) discharge / charge current	7.9 Ad.c.	15.8 Ad.c.	22.3 Ad.c.	22.3 Ad.c.
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	160, ..., 950 Vd.c.			
Max. input current	18/18/18 Ad.c.			
Isc PV (absolute maximum)	25/25/25 Ad.c.			
AC output/input (Grid side)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			
Nominal frequency	50 / 60 Hz			
Nominal active output power	8 kW			
Nominal apparent output power	8 kVA			
Rated (max.) apparent output power	8.8 kVA			
Nominal output current	12.2 Aa.c.@ 220/380 Va.c. 11.6 Aa.c.@ 230/400 Va.c. 11.2 Aa.c.@ 240/415 Va.c.			
Rated (max.) output current	13.4 Aa.c.@ 220/380 Va.c. 12.8 Aa.c.@ 230/400 Va.c. 12.3 Aa.c.@ 240/415 Va.c.			
Rated (max.) active input power	22.5 kW			
Rated (max.) input current	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.			
Power factor range	0.8(leading), ..., 0.8(lagging)			
AC output (Back-up)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			

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Nominal frequency	50 / 60 Hz
Rated (max.) active output power (On-Grid)	22.5 kW
Rated (max.) apparent output power (On-Grid)	22.5 kVA
Rated (max.) output current (On-Grid)	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.
Rated (max.) active output power (Off-Grid)	8 kW
Rated (max.) apparent output power (Off-Grid)	8 kVA
Rated (max.) output current (Off-Grid)	12.2 Aa.c.@ 220/380 Va.c. 11.6 Aa.c.@ 230/400 Va.c. 11.2 Aa.c.@ 240/415 Va.c.
Power factor range	0.8(leading), ..., 0.8(lagging)
General parameters	
Inverter topology	Non-isolated
Protective class	I
Ingress protection	IP66
Operating temperature range	-20°C, ..., +55°C
Overvoltage category	III (Grid, Backup), II (PV)

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Models	SN6.0HTC-6.4	SN6.0HTC-12.8	SN6.0HTC-19.2	SN6.0HTC-25.7
Battery data				
Module number	1	2	3	4
Energy	6.4 kWh	12.8 kWh	19.2 kWh	25.7 kWh
Battery nominal voltage	412.8 Vd.c.			
Nominal capacity	15.58 Ah	31.16 Ah	46.74 Ah	62.33 Ah
Rated (max.) discharge / charge current	7.9 Ad.c.	13.9 Ad.c.	13.9 Ad.c.	13.9 Ad.c.
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	160, ..., 950 Vd.c.			
Max. input current	18/18 Ad.c.			
Isc PV (absolute maximum)	25/25 Ad.c.			
AC output/input (Grid side)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			
Nominal frequency	50 / 60 Hz			
Nominal active output power	6 kW			
Nominal apparent output power	6 kVA			
Rated (max.) apparent output power	6.6 kVA			
Nominal output current	9.1 Aa.c.@ 220/380 Va.c. 8.7 Aa.c.@ 230/400 Va.c. 8.4 Aa.c.@ 240/415 Va.c.			
Rated (max.) output current	10.0 Aa.c.@ 220/380 Va.c. 9.6 Aa.c.@ 230/400 Va.c. 9.2 Aa.c.@ 240/415 Va.c.			
Rated (max.) active input power	22.5 kW			
Rated (max.) input current	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.			
Power factor range	0.8(leading), ..., 0.8(lagging)			
AC output (Back-up)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			

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Nominal frequency	50 / 60 Hz
Rated (max.) active output power (On-Grid)	22.5 kW
Rated (max.) apparent output power (On-Grid)	22.5 kVA
Rated (max.) output current (On-Grid)	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.
Rated (max.) active output power (Off-Grid)	6 kW
Rated (max.) apparent output power (Off-Grid)	6 kVA
Rated (max.) output current (Off-Grid)	9.1 Aa.c.@ 220/380 Va.c. 8.7 Aa.c.@ 230/400 Va.c. 8.4 Aa.c.@ 240/415 Va.c.
Power factor range	0.8(leading), ..., 0.8(lagging)
General parameters	
Inverter topology	Non-isolated
Protective class	I
Ingress protection	IP66
Operating temperature range	-20°C, ..., +55°C
Overvoltage category	III (Grid, Backup), II (PV)

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Models	SN5.0HTC-6.4	SN5.0HTC-12.8	SN5.0HTC-19.2	SN5.0HTC-25.7
Battery data				
Module number	1	2	3	4
Energy	6.4 kWh	12.8 kWh	19.2 kWh	25.7 kWh
Battery nominal voltage	412.8 Vd.c.			
Nominal capacity	15.58 Ah	31.16 Ah	46.74 Ah	62.33 Ah
Rated (max.) discharge / charge current	7.9 Ad.c.	13.4 Ad.c.	13.4 Ad.c.	13.4 Ad.c.
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	160, ..., 950 Vd.c.			
Max. input current	18/18 Ad.c.			
Isc PV (absolute maximum)	25/25 Ad.c.			
AC output/input (Grid side)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			
Nominal frequency	50 / 60 Hz			
Nominal active output power	5 kW			
Nominal apparent output power	5 kVA			
Rated (max.) apparent output power	5.5 kVA			
Nominal output current	7.6 Aa.c.@ 220/380 Va.c. 7.3 Aa.c.@ 230/400 Va.c. 7.0 Aa.c.@ 240/415 Va.c.			
Rated (max.) output current	8.4 Aa.c.@ 220/380 Va.c. 8.0 Aa.c.@ 230/400 Va.c. 7.7 Aa.c.@ 240/415 Va.c.			
Rated (max.) active input power	22.5 kW			
Rated (max.) input current	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.			
Power factor range	0.8(leading), ..., 0.8(lagging)			
AC output (Back-up)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c., 3/N/PE 240/415 Va.c.			

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Nominal frequency	50 / 60 Hz
Rated (max.) active output power (On-Grid)	22.5 kW
Rated (max.) apparent output power (On-Grid)	22.5 kVA
Rated (max.) output current (On-Grid)	34.1 Aa.c.@ 220/380 Va.c. 32.7 Aa.c.@ 230/400 Va.c. 31.3 Aa.c.@ 240/415 Va.c.
Rated (max.) active output power (Off-Grid)	5 kW
Rated (max.) apparent output power (Off-Grid)	5 kVA
Rated (max.) output current (Off-Grid)	7.6 Aa.c.@ 220/380 Va.c. 7.3 Aa.c.@ 230/400 Va.c. 7.0 Aa.c.@ 240/415 Va.c.
Power factor range	0.8(leading), ..., 0.8(lagging)
General parameters	
Inverter topology	Non-isolated
Protective class	I
Ingress protection	IP66
Operating temperature range	-20°C, ..., +55°C
Overvoltage category	III (Grid, Backup), II (PV)

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