

Three Phase Grid-Tie Inverter 20K, 25K, 30K, 36K-HV & 40K-HV



Models	HSI-20K	HSI-25K	HSI-30K	HSI-36K-HV	HSI-40K-HV
Input Side (DC)					
Max. input power	23kW	28kW	34kW	41kW	45kW
Max. input voltage	1000V				
Start-up input voltage	350V				
MPPT voltage range	200-850V				
Max. input current	18A+18A+18A+18A				
MPPT number/Max. input strings number	4/8				
Output Side (AC)					
Rated output power	20kW	25kW	30kW	36kW	40kW
Max. transient power	N/A				
Rated grid voltage	400V	380/400V	380/400V	480V	480V
Grid voltage range	304~460V	304~460V	304~460V	384~576V	384~576V
Rated grid frequency	50/60Hz				
Operation phase	Three				
Max. output current	28.7A	36.1A	43.3A	43.3A	48.1A
Power factor	0.8leading & 0.8 lagging				
Total harmonic distortion (THDi)	<3%				
DC injection current	<50mA				
Grid frequency range	47-52Hz or 57-62Hz (adjustable)				
Efficiency					
Max. efficiency	98.6%				
EU efficiency	98.3%				
MPPT efficiency	99.9%				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Output over voltage protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Grid monitoring	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Integrated DC switch	Optional				
General Data					
Dimensions	430W*613H*269D(mm)				
Weight	58.2kg				
Topology	Transformerless				
Self consumption	<1W(Night)				
Operating ambient temperature range	-25°C ~ 60°C				
Ingress protection	IP65				
Noise emission (typical)	<30 dBA				
Cooling concept	Natural convection				
Max. operation altitude	4000m				
Designerd lifetime	>20 years				
Grid connection standard	EN50438, G59/3, AS4777, VDE0126-1-1, IEC61727				
Relative humidity	0 ~ 100%				
Safety/EMX standard	EN61000-6-1:2007; EN61000-6-3:2007; IEC62109-1/2-; AS3100				



Features

- ▶ Three phase output
- ▶ Over 98.6% Max. efficiency
- ▶ 200V-850V input voltage range
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ Compact and light design for one-person easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ RS 485, WiFi/GPRS (optional) interface
- ▶ Numerous protection functions
- ▶ WiFi and monitoring app available
- ▶ 5 years standard warranty, 10 years optional upgrade
- ▶ **DC Connection:** Original MC4 Connector
- ▶ **AC Connection:** IP67 rated plug
- ▶ **Display:** LCD, 2x20 Z
- ▶ **Interface:** RS 485, WiFi/GPRS (optional)
- ▶ **Warranty:** 5-10 years