



## Features

- ▶ Three phase output
- ▶ Over 98.2% Max. efficiency
- ▶ 200V-800V input voltage range
- ▶ Dual 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

# Three Phase Grid-Tie Inverter 10K, 10K-LV, 15K & 20K



Models	HSI-10K	HSI-10K-LV	HSI-15K	HSI-20K-HV
<b>Input Side (DC)</b>				
Max. input power	11.5kW	11kW	16.5kW	20kW
Max. input voltage	1000V	600V	1000V	1000V
Start-up input voltage	330V	170V	330V	330V
MPPT voltage range	200-800V	150-500V	200-800V	200-800V
Max. input current			18A+18A	
MPPT number/Max. input strings number	2/4	2/2	2/4	2/4
<b>Output Side (AC)</b>				
Rated output power	10kW	9.5kW	15kW	20kW
Max. transient power	11kW	10kW	15kW	20kW
Rated grid voltage	380/400V	208/220/240V	380/400V	480V
Grid voltage range	313~470V	180~270	313~470V	384*576V
Rated grid frequency			50/60Hz	
Operation phase			Three	
Max. output current	16.7A	25A	25A	25A
Power factor		0.8leading & 0.8 lagging		
Total harmonic distortion (THDi)		<3%		
DC injection current	<20mA	<50mA	<20mA	<50mA
Grid frequency range		47-52Hz or 57-62Hz (adjustable)		
<b>Efficiency</b>				
Max. efficiency	98.2%	97.2%	98.3%	98.3%
EU efficiency	97.3%	96.2%	97.5%	97.5%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
<b>Protection</b>				
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	
<b>General Data</b>				
Dimensions		430W*613H*269D(mm)		
Weight	29kg	30kg	30kg	30kg
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		