

The Smartest Brain
For Your Solar PV System



Grid-Tied PV Inverter

HSOL-4K-DS/
HSOL-5K-DS/HSOL-6K-DS

► Compact and Robust

- Lightweight, compact structure design, easy to install
- IP65, ensuring waterproof and dustproof
- CapSense Button design for great water proof performance

► Quality guaranteed

- Total warranty of 8 years.
- Components used from European, Japanese and American Suppliers for enhanced assurance.
- Low Operating Expenses.

► High Conversion Efficiency

- High conversion efficiency up to 98%
- Dynamic MPPT with enhanced algorithm to ensure accuracy in real time monitoring

► Easy Operation, Intelligent Remote Monitoring

- Support GPRS, WIFI and DRMO remote intelligent monitoring system
- Integrated export power management capability

AS 4777.2, C10/11, CE, CEI 0-21, EN 50438, G59/3-4, G83/2-1, DIN EN 62109 / IEC 62109, EN50438, RD1699, VDE-AR-N 4105, VDE0126-1-1, IS 16221, IS 16169



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Technical Data

Inverter	HSOL-4K-DS	HSOL-5K-DS	HSOL-6K-DS
Input (DC)			
Max. DC Input Power [W]	4400	5500	6500
Max. DC Voltage [V]	550	550	550
Operating MPPT Voltage Range [V]	100-500	100-500	100-500
Full Load MPPT Range [V]	225-440	280-440	300-440
Norminal Input Voltage [V]	380	380	380
Star Up Voltage/Initial Feeding Voltage [V]	70/150	70/150	70/150
Turn off Voltage [V]	60	60	60
Number of MPP Trackers	2	2	2
Number of DC Connections/Tracker	1	1	1
Max. DC Current per Tracker [A]	12	12	12
Max. Power per Tracker [W]	2500	3000	3500
Output (AC)			
Max. AC Output Power [VA]	4000	5000	6000
Nominal AC Output Power [W]	4000	5000	5750
Nominal AC Voltage [V]*	230	230	230
AC Voltage Range [V]	187 - 270	187 - 270	187 - 270
Nominal Frequency [Hz]*	50 / 60	50 / 60	50 / 60
Frequency Range [Hz]	45 - 55 / 55 - 65	45 - 55 / 55 - 65	45 - 55 / 55 - 65
Max. AC Current [A]	17.5	22	25
Power Factor	0.9i - 0.9c	0.9i - 0.9c	0.9i - 0.9c
Total Harmonic Distortion (THD)	<3%	<3%	<3%
Efficiency			
Max. Efficiency	97.50%	97.50%	97.50%
Euro Efficiency	97%	97%	97%
MPPT Efficiency	99.90%	99.90%	99.90%
loss at standby /loss at night	<5W / <0W	<5W / <0W	<5W / <0W
Safety and Protection			
Array ground insulation resistance monitoring		yes	
All-pole sensitive residual current minitoring unit		Yes	
Array polarity reverse protection		yes	
Output short circuit protection		yes	
Anti-island protection		yes	
Surge protection		yes	
Protection Class		I	
Overvoltage Category		PV II / Mains III	
General data			
Dimensions (WxHxD) [mm]	389*355*150	389*355*150	389*355*150
Weight [kg]	14	14.5	14.8
Environmental Protection Rating		IP65	
Cooling Concept		Natural convection	
DC Switch		Optional	
DC Connertor		Amphenol connector/MC4	
AC Connertor		Plug-in connector	
Mounting Information		Wall bracket	
Feature			
Operating Temperature Range [°C]		-25 ~ +60, derating when temperature>45°C	
Relative Humidity		0 - 95%,non condensing	
Max. Altitude (above sea level) [m]		<2000	
Noise Emission [dB]		< 25	
Topology		Transformerless	
Display		LCD, CapSense key	
Data Communication Interfaces		WiFi/GPRS optional	
Certification		'AS 4777.2, C10/11, CE, CEI 0-21, EN 50438, G59/3-4, G83/2-1, DIN EN 62109 / IEC 62109, EN50438, RD1699,, VDE-AR-N 4105, VDE0126-1-1,IS 16221, IS 16169	
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*The AC voltage and frequency range may vary depending on specific country grid

**power can derating to 3680VA

***power can derating to 4600VA