

KSG Single Phase String-type Inverter series

Application

KSG4K/5K/6K series Grid-connected PV inverter is a single phase string inverter, specially designed for PV power station. Each inverter has two independent MPPT units and access to PV modules with different types. It is high efficiency and high reliability, with compact design and easy installation.

Features

- * Compact Size, Light Weight
- * Maximum efficiency of 97%
- * Mimic LCD display
- * IP65 cabinets for both indoor and outdoor applications
- * Optional Monitoring Software provided to offer operational status and electricity generated data.
- * Product Design Life: 25 years.



KSG Series Technical Specifications:

Model	KSG-1.5K	KSG-2K	KSG-3K	KSG-4K	KSG-4.2K	KSG-5K	KSG-6K
DC INPUT							
Max. Input Power	1800Wp	2400Wp	3600Wp	4300Wp	4600Wp	5400Wp	6400Wp
Rated Voltage	DC360Vdc						
Max DC Voltage	550Vdc						
Operation Voltage	DC120V-DC500V						
Max. MPPT Voltage range	DC150~DC540Vdc						
Number of MPP Tracker	1				2		
Strings per MPP Tracker	2				1		
No. of input connection/Max. Input Current for each connection	1/8.5A	1/11.3A	1/17A	1/20.7A	2/17A	2/17A	2/17A
AC Output							
Nominal AC Power	1500W	2000W	3000W	3650W	4200W	5000W	6000W
Max. AC Power Output	1650W	2200W	3300W	4000W	4200W	5000W	6100W
Normal AC Voltage	220/230/240Vac						
AC Voltage Window	207V~262V				180~280V		
Phase/Wire	1 phase/2 wires(LNG)						
Output Frequency Range	50 or 60Hz+/-5Hz						
Max. Output Current	8.3A	11.0A	16.5A	20.1A	21A	25A	30A
Rated Output Current(rms)	6.5A	8.7A	13A	15.9A	21A	25A	28A
Power Factor(cos θ)	1						
Current THD(THDi)	<3%						
Islanding Protection Detection	Active & Passive						
Power Factor(cos θ)	>0.99						
System	Yes						
Topology	High Frequency PWM Transformer-less						
Consumption(standby/night)	<5W/<0.2W				<7W/<0.2W		
Efficiency							
Max. Efficiency	>97.2%	>97.3%	>97.3%	>97.5%	>97.5%		
Euro Efficiency	>96.6%	>96.7%	>96.7%	>97.0%	>97.0%		
MPPT Efficiency	99.5%						
IP Protection Degree	IP65						
Cooling	Fan less				Forced cooling		
Mechanical Characteristics							
Dimension (W x H x D) mm	353x605x182				353x660x182		
Overall Weight (KG)	22	26	28	28	30	32	
Protection							
DC reverse-polarity Protection	-						
All-pole fault current monitoring unit	yes						
Ground fault monitoring	yes						
Noise Level	<25dB				<40dB		
Environment							
Operating Temperature	-20 C + 60 C						
Relative Humidity	<95% RH Maximum, Non-condensing						
Altitude	<2000m						
Safety Conformance							
Quality Assurance	ISO9001 certified						
EMC Standard	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN55022, EN61000-3-2, EN61000-3-12, EN61000-3-3, EN61000-3-11						
Safety	VDE0126-1-1, EN50178, IEC62109, ENEL Guideline 2011, AS3100/4777....etc.						

Specifications subject to change without prior notice.