

IGSI-5000SJ, 6000SJ



IGSI "J" series of 5kW to 6kW family of grid-tied photovoltaic inverters are suitable for use in both residential and light industrial applications.

The design utilizes conversion process with minimal losses and maximum reliability.

The objective is to provide a cost effective, reliable and efficient grid-in feed system with maximum energy harvesting capabilities.

Features

- Transformerless design
- Compact and high power density
- European efficiency up >96%
- MPPT efficiency >99%
- High overload capability
- IP65 rated for outdoor applications
- Integrated RS232 / 485 Serial Communication
- True Sine Wave Output

Model	IGSI-5000SJ	IGSI-6000SJ
DC-Input Parameters		
Max. Input Power (W)	5300	6400
Max. Input Voltage (Vdc)	550	
MPPT Operating Range (Vdc)	100 to 500	
Max. Input Current (A) - total	25	27
Numbers of Input	3	
MPPT Channel	1	
AC-Output Parameters		
Max. Output Power (W)	5000	6000
Rated Output Power (W)	4600	6000
Output Voltage Range (Vac)*	190 to 265	
Max. Output Current (A)	23.8	26
Rated Output Voltage (Vac)	230	
Rated Output Current (A)	20	28.6
Output Frequency Range (Hz)*	50 ± 5	
Power Factor	> 0.99	
Current Harmonic Distortion (THDi)	< 3%	
Max. Efficiency	> 97%	> 97%
European Efficiency	> 96%	> 96%
Environment Parameters		
Protective Level	IP65	
Working Temperature Range (°C)	-25 to +60	
Humidity	0 to 95%, no condensation	
Ventilation	Natural cooling	
Consumption During Night Time (W)	0	
Noise (dB)	< 25	
Communication		
LCD	4 lines character display, controls are manipulated through the buttons	
Communication Interface	RS232 & RS485	
Mechanical Parameters		
Dimensions (WxDxH) mm	345 × 162 × 573	
Weight (Kg)	26	27
Others		
Certifications	VDE0126-1-1, DK5940, AS4777, IEC 62109-1, IEC62109-2, EN50178, EN61000, G83/1, CE certification.	

* Output AC voltage and frequency range will be dependent on the local requirements