IGSI-10000DJ, IGSI-12000DJ

IGSI “J” series of 10kW to 12kW family of 3-phase grid-tied photovoltaic inverters are suitable for use in both commercial and light-medium industrial applications.

The design utilizes conversion process with minimal losses and maximum reliability. The dual MPPT channels provide flexibility and allow for real time power tracking independently.

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
- Dual MPPT with auto detect function (for independent or parallel operation)
- European efficiency >97.6%
- MPPT efficiency >99%
- High overload capability
- IP65 rated for outdoor applications
- Integrated RS232 / 485 Serial Communication
- True three phase output inverter
- Ease of maintenance for cooling fan

Model	IGSI-10000DJ	IGSI-12000DJ
DC-Input Parameters		
Max. Input Power (W)	10300	12300
Max. Input Voltage (Vdc)	1000	
MPPT Operating Range (Vdc)	200 to 800	
Max. Input Current per channel (A)	22	24
Numbers of Input	4	
MPPT Channel	2	
AC-Output Parameters		
Max. Output Power (W)	10000	12000
Rated Output Power (W)	10000	12000
Output Voltage Range (Vac)*	330 to 480	
Max. Output Current per phase (A)	16.2	19.4
Rated Output Voltage (Vac)	400	
Rated Output Current per phase (A)	14.5	17.4
Output Frequency Range (Hz)*	50 ± 5	
Power Factor	0.9 (leading) to 0.9 (lagging)	
Current Harmonic Distortion (THDi)	< 3%	
Max. Efficiency	98.2%	98.3%
European Efficiency	97.6%	97.6%
MPPT Efficiency	99.6%	
Environment Parameters		
Protective Level	IP65	
Working Temperature Range (^{o}C)	-25 to +60	
Humidity	0 to 95%, no condensation	
Ventilation	Forced fan cooling (IP54 fan)	
Consumption During Night Time (W)	0	
Noise (dB)	< 45	
Communication		
LCD	4 lines character display, controls are manipulated through the buttons	
Communication Interface	RS232 & RS485	
Mechanical Parameters		
Dimensions (W×D×H) mm	470 × 165 × 585	
Weight (Kg)	35	
Others		
Certifications	VDE0126-1-1, DK5940, AS4777, IEC 62109-1,IEC62109-2, EN50178, EN61000, G59/1, CE certification.	

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