IGSI-3300DJ, 4000DJ, 5000DJ

IGSI “J” series of 3.3kW to 5kW 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 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 up >96.5%
- MPPT efficiency >99%
- High overload capability
- IP65 rated for outdoor applications
- Integrated RS232 / 485 Serial Communication
- True Sine Wave Output

Model	IGSI-3300DJ	IGSI-4000DJ	IGSI-5000DJ
DC-Input Parameters			
Max. Input Power (W)	3600	4380	5300
Max. Input Power per MPPT (W)	2000	2500	3000
Max. Input Voltage (Vdc)	500		
MPPT Operating Range (Vdc)	100 to 450		
Max. Input Current per channel (A)	10	13	15
Numbers of Input	2		
MPPT Channel	2		
AC-Output Parameters			
Max. Output Power (W)	3300	4000	5000
Rated Output Power (W)	3300	4000	5000
Output Voltage Range (Vac)*	190 to 265		
Max. Output Current (A)	16.5	20	25
Rated Output Voltage (Vac)	230		
Rated Output Current (A)	14.3	17.4	21.5
Output Frequency Range (Hz)*	50 ± 5		
Power Factor	> 0.99		
Current Harmonic Distortion (THDi)	< 3%		
Max. Efficiency	97.4%	97.6%	97.5%
European Efficiency	96.5%	96.8%	96.7%
MPPT Efficiency	99.6%		
Environment Parameters			
Protective Level	IP65		
Working Temperature Range (^{o}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 (W×D×H) mm	345 × 152 x 435		
Weight (Kg)	18		
Others			
Certifications	ENEL GUIDA, AS4777, AS/NZS 3100, IEC 62109-1, IEC62109-2, EN50178, EN61000, G83/1, CE certification.		

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