

IGSI-5000DJ/3, IGSI-6000DJ/3,  
IGSI-8000DJ/3



IGSI "J" series of 5kW to 8kW 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-5000DJ/3	IGSI-6000DJ/3	IGSI-8000DJ/3
<b>DC-Input Parameters</b>			
Max. Input Power (W)	5180	6200	8300
Max. Input Voltage (Vdc)	900		
MPPT Operating Range (Vdc)	250 to 800		
Max. Input Current per channel (A)	10	12	16
Numbers of Input	2		
MPPT Channel	2		
<b>AC-Output Parameters</b>			
Max. Output Power (W)	5000	6000	8000
Rated Output Power (W)	5000	6000	8000
Output Voltage Range (Vac)*	330 to 480		
Max. Output Current per phase (A)	7.9	9.5	12.7
Rated Output Voltage (Vac)	400		
Rated Output Current per phase (A)	7.3	8.7	11.6
Output Frequency Range (Hz)*	50 ± 5		
Power Factor	0.9 (leading) to 0.9 (lagging)		
Current Harmonic Distortion (THDi)	< 3%		
Max. Efficiency	97.6%	97.8%	98.1%
European Efficiency	96.7%	96.9%	97.3%
MPPT Efficiency	99.6%		
<b>Environment Parameters</b>			
Protective Level	IP65		
Working Temperature Range (°C)	-25 to +60		
Humidity	0 to 95%, no condensation		
Ventilation	Forced fan cooling (IP54 fan)		
Consumption During Night Time (W)	0		
Noise( dB) - typical	<= 45		
<b>Communication</b>			
LCD	4 lines character display, controls are manipulated through the buttons		
Communication Interface	RS232 & RS485		
<b>Mechanical Parameters</b>			
Dimensions (W×D×H) mm	470 x 165 x 560		
Weight (kg)	32		
<b>Others</b>			
Certifications	VDE4105, ENEL, AS4777, IEC 62109-1, IEC62109-2, EN50178, EN61000, G59/2, CE certification.		

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