

FRONIUS IG GRID-TIED INVERTERS FOR PHOTOVOLTAIC SYSTEMS

FRONIUS IG 4000/IG 5100/IG 4500-LV - Specifications

DC Input Data	IG 4000	IG 5100	IG4500-LV
Recommended PV power	3200 – 4600 Wp	4600 – 6000 Wp	3700 – 5300 Wp
Max. DC input voltage	500 V	500 V	500 V
Operating DC voltage range	150 – 450 V	150 – 450 V	150 – 450 V
Nominal input current	16.3 A	20.8 A	18.3 A
Max. DC input current	26.1 A	33.9 A	29.3 A
AC Output Data			
Maximum continuous output power @ 40°C*	4000 W	5100 W	4500 W
Nominal AC output voltage	240 V	240 V	208 V
Utility AC voltage range	212 – 264 V (240 V +10% / -12%)		182 - 228 V
Nominal AC current	16.7 A	21.3 A	21.7 A
Maximum AC current	16.7 A	21.3 A	21.7 A
Maximum utility back feed current	0.0 A	0.0 A	0.0 A
Operating frequency range	59.3 – 60.5 Hz (60 Hz nom)		
Total Harmonic Distortion THD	< 5%		
Power Factor	1		
General Data			
Peak efficiency	94.4%	94.4%	94.4%
Power Consumption in stand-by	< 0.15 W (night)		
Power Consumption during operation	7 W		
Enclosure	NEMA 3R		
Size (l x w x h)	28.34 x 16.46 x 8.78 inches (720 x 418 x 223 mm)		
Weight	42 lbs. (19 kg)		
Ambient temperature range	-4 to 122 °F (-20 to 50 °C)		
Cooling	Controlled forced ventilation		
Integrated DC and AC disconnects	Standard		
Protections			
Ground fault protection	Internal GFDI, in accordance with UL 1741 and NEC		
DC reverse polarity protection	Internal diode		
Islanding protection	Internal, in accordance with UL 1741 and NEC		
Over temperature	Output power de-rating		
Surge Protection	Internal DC & AC protection, Tested to 6 kV		
Certifications and Compliance			
Ground fault detector and interrupter	UL certification in progress, FCC Class B		
Maximum AC over current protection	Compliant with NEC Art. 690 requirements		
AC wire sizing	Two-pole circuit breaker 30 A		
DC wire sizing	Use minimum AWG 12 194°F (90 °C) copper wire		
Warranty	Use minimum AWG 10 194°F (90 °C) copper wire		
	5 years		

*Valid above 200 V



POWERING YOUR FUTURE

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