



FRONIUS IG

GRID-TIED INVERTERS FOR PHOTOVOLTAIC SYSTEMS

Light Weight

At 42 lbs, the FRONIUS IG inverters are the lightest grid-connected inverters making them both easy and cost-effective to install.

More Energy

MIX™ Concept allows your system to output more energy under part-load conditions.

Lower Cost

Integrated DC / AC breakers reduce installation time and complexity.

LCD Display

Comes standard with every FRONIUS IG and tracks more than 20 critical system performance parameters.

Powerful

At 4000, 4500 and 5100 watts, these inverters deliver more power output for higher performance installations.

Reliable

Fronius has been in business for over 60 years and has more than 125,000 inverters installed worldwide.



POWERING YOUR FUTURE

FRONIUS IG

FRONIUS IG 4000 / 5100 / 4500-LV - Specifications

Input data	FRONIUS IG 4000	FRONIUS IG 5100	FRONIUS IG 4500-LV
Recommended PV power (Wp)	3000 – 5000	4000 – 6300	3600 – 5500
Operating DC voltage range (V)	150 – 450	150 – 450	150 – 450
Max. DC input voltage (V)	500	500	500
Max. usable DC input current (A)	26.1	33.2	29.3
Output data	FRONIUS IG 4000	FRONIUS IG 5100	FRONIUS IG 4500-LV
Maximum output power (W) @ 104°F/	4000	5100	4500
Nominal AC output voltage (V)	240		208
Operating AC voltage range (V)	212 – 264 (240 +10% / -12%)		183 – 227 V
Maximum AC current (A)	16.7	21.3	21.6
Maximum utility back feed current (A)	0.0	0.0	0.0
Max. continuous output fault current (A)	35.2	35.2	35.2
Nominal output frequency (Hz)	60		
Operating frequency range Hz	59.3 – 60.5 (60+ 0.5 /- 0.7)		
Total harmonic distortion (%)	< 5		
Power Factor (cos phi)	1		
General data	FRONIUS IG 4000	FRONIUS IG 5100	FRONIUS IG 4500-LV
Max. efficiency (%)	95.2	95.2	94.4
Consumption in stand-by (night) (W)	< 0.15		
Consumption during operation (W)	15		
Protection Type	NEMA 3R		
Cooling	Controlled forced ventilation		
Size l x w x h	28.4 x 16.5 x 8.8 in (720 x 418 x 223 mm)		
Weight	42 lb. (19 kg)		
Ambient temperature range	-5 to 122 °F (-20 to 50 °C)		
Integrated DC and AC disconnects	standard		
Protections			
Ground fault protection	Internal GFDI, in accordance with UL 1741		
DC reverse polarity protection	Internal diode		
Islanding protection	Internal, in accordance with UL 1741		
Over temperature	Output power derating		
Surge Protection	Internal DC & AC protection, Tested to 6 kV		
Compliance			
Safety	UL 1741		
EMI	FCC Part 15; Class A & B		
Anti-Islanding protection	UL 1741		
Ground fault detector and interrupter	Compliant with NEC Art. 690 requirements, UL 1741		
Miscellaneous			
Maximum AC over current protection	Two-pole, 30 A circuit breaker		
AC wire sizing	Use minimum AWG 6 max 194°F (90 °C) copper wire		
DC wire sizing	Use minimum AWG 6 min 194°F (90 °C) copper wire		
AC disconnect	32 A		
DC disconnect	40 A		
Warranty	5 Years; 10 Year extended warranty available		

Distributed by



Fronius USA LLC
Solar Electronic Division
 5266 Hollister Ave., #117
 Santa Barbara, California 93111
 E-Mail: pv-us@fronius.com
www.fronius-usa.com