



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 UL approved DC & AC disconnects which reduce installation time and complexity - often eliminating the need for additional disconnects.
- LCD Display** User-friendly and comes standard with every FRONIUS IG; 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 200,000 FRONIUS IG inverters installed worldwide.
- Warranty** Standard 7-Year Warranty (10-Year Extended Warranty available).



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	3000 – 5000 Wp	4000 – 6300 Wp	3600 – 5500 Wp
Operating DC voltage range	150 – 450 V	150 – 450 V	150 – 450 V
Max. DC input voltage	500 V	500 V	500 V
Max. usable DC input current	26.1 A	33.2 A	29.3 A
Output data	FRONIUS IG 4000	FRONIUS IG 5100	FRONIUS IG 4500-LV
Maximum output power @40° C	4000 W	5100 W	4500 W
Nominal AC output voltage	240 V		208 V
Operating AC voltage range	212 – 264 V (240 +10% / -12%)		183 – 227 V
Maximum AC current	16.7 A	21.3 A	21.6 A
Maximum utility back feed current	0.0 A	0.0 A	0.0 A
Maximum output fault current	35.2 A	35.2 A	35.2 A
Nominal output frequency	60 Hz		
Operating frequency range	59.3 – 60.5 Hz (60 Hz nom)		
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	< 0.15 W (night)		
Consumption during operation	15 W		
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 lbs. (19 kg)		
Ambient temperature range	-5 to 122 °F (-20 to 50 °C)		
Integrated DC and AC disconnects	standard UL approved DC & AC disconnects		
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 maximum AWG 6 194°F (90 °C) copper wire		
DC wire sizing	Use maximum AWG 6 194°F (90 °C) copper wire		
AC disconnect	32 A		
DC disconnect	40 A		
Warranty	7 Years; 10 Year extended warranty available		

Distributed by



Fronius USA LLC
Solar Electronic Division
 10421 Citation Drive
 Suite 1100 Brighton, Mi 48116
 E-Mail: pv-us@fronius.com
www.fronius-usa.com