



Fronius **IG** PV Inverter

Maximum flexibility with Fronius IG. The PV inverter family works brilliantly with all solar modules available on the market. The ingenious processor control – the Fronius IG Module-Manager™, the MIX™ concept and a large number of other enhancements makes the inverter perfect. Fronius IG inverters are made for every size of PV system from 1 KW up to parallel-switched large-scale plants in the megawatt range. They work reliably and efficiently in every class thanks to Fronius' incredible experience and decades of research and development.



POWERING YOUR FUTURE

Fronius IG Technical Data

INPUT DATA	Fronius IG	2000	3000	2500-LV	4000	5100	4500-LV
Recommended PV-power		1.5 - 2.4 kWp	2.1 - 3.3 kWp	1.8 - 2.7 kWp	3.0 - 4.8 kWp	4.1 - 6.1 kWp	3.5 - 5.3 kWp
Max. input voltage (at 1000 W/m ² 14°F (-10°C) in open circuit operation)		500 V					
MPPT voltage range		150 ... 450 V					
Max. usable input current		13.6 A	18.0 A	16.9 A	26.1 A	33.2 A	29.3 A
Admissible conductor size (DC)		No. 14 - 4 AWG					
No. of DC input terminals		3 (screw terminals)					
No. of MPP trackers		1					

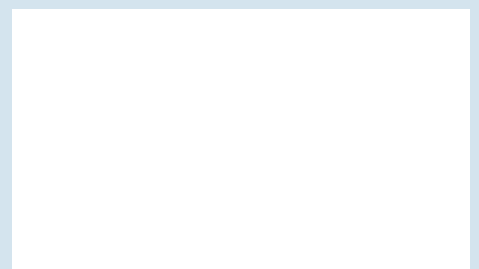
OUTPUT DATA	Fronius IG	2000	3000	2500-LV	4000	5100	4500-LV
Maximum continuous output power @ 40°C		2000 W	2700 W	2350 W	4000 W	5100 W	4500 W
Nominal AC output voltage		240 V		208 V	240 V		208 V
Operating AC voltage range default (-12 / +10 %)		212 - 264 V		183 - 229 V	212 - 264 V		183 - 229 V
Max. continuous output current		8.3 A	11.3 A	11.3 A	16.7 A	21.3 A	21.6 A
Max. continuous utility backfeed current		0 A					
Nominal output frequency		60 Hz					
Operating frequency range		59.3 - 60.5 Hz					
Total harmonic distortion (THD)		< 5 %					
Power factor (cos phi)		1 (at nominal output power)					
Number of phases		1					
Admissible conductor size (AC)		No. 14 - 6 AWG					

GENERAL DATA	Fronius IG	2000	3000	2500-LV	4000	5100	4500-LV	
Max. efficiency		95.2 %		94.4 %	95.2 %		94.4 %	
GEC efficiency		93.5 %	94.0 %	93.0 %	94.0 %	94.5 %	93.5 %	
Consumption in standby (night)		< 0.15 W						
Consumption during operation		7 W			12 W			
Enclosure type		NEMA 3R						
Unit dimensions (W x H x D)		16.5 x 18.5 x 8.7 inch (418 x 470 x 223 mm)			16.5 x 28.3 x 8.7 inch (418 x 720 x 223 mm)			
Weight		26 lbs. (11.8 kg)			41.8 lbs. (19 kg)			
Admissible ambient operating temperature		-13° ... +122°F (-25° ... +50°C)						
Cooling		Controlled forced ventilation, variable speed fan						
Disconnects		Standard Code Compliant DC & AC disconnects						
Compliance		UL 1741-2005, IEEE 1547-2003, IEEE 1547.1, ANSI/IEEE C62.41, FCC Part 15 B, NEC Article 690, C22.2 No. 107.1-01 (September 2001), California Solar Initiative - Program Handbook - Appendix C: Inverter Integral 5 % Meter Performance Specification						

PROTECTION DEVICES	Fronius IG	2000	3000	2500-LV	4000	5100	4500-LV
Ground fault protection		Internal GFDI (Ground Fault Detector/Interruptor); in accordance with UL 1741-2010 and NEC Art. 690					
DC reverse polarity protection		Internal diode					
Islanding protection		Internal; in accordance with UL 1741-2005, IEEE 1547-2003 and NEC					
Over temperature		Output power derating / active cooling					



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