



SHIFTING THE LIMITS

FRONIUS IG

/ The dependable PV string inverter range.



/ Fronius MIX technology



/ HF transformer switchover



/ Wi-Fi®* interface



/ PC board replacement process

/ With the Fronius IG product family, Fronius has launched a generation of inverters rated from 1.3 to 5 kW that is compatible with all solar modules. What makes the inverters so appealing is their intuitive operation and ease of use, together with their highly informative analyses of system values in every situation. In short: a PV inverter that any system operator would welcome.

*The term Wi-Fi® is a registered trademark of the Wi-Fi Alliance.

TECHNICAL DATA: FRONIUS IG

INPUT DATA	IG 2000	IG 3000	IG 2500 LV	IG 4000	IG 5100	IG 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
DC Start Up Voltage	170 V					
Max. input voltage range	500 V					
Max. useable input current	13.6 A	18.0 A	16.9 A	26.1 A	33.2 A	29.3 A
Max. input voltage (U _{dc max})	500 V					
MPP voltage range	150 V - 450 V					
Number of DC inputs	3					

OUTPUT DATA	IG 2000	IG 3000	IG 2500 LV	IG 4000	IG 5100	IG 4500 LV
Max. output power	208 V	NA	2350 W	NA	NA	4500 W
	240 V	2000 W	2700 W	NA	4000 W	5100 W
	277 V	NA	NA	NA	NA	NA
Max. output current (I _{ac max})	6.5 A					
Grid connection (U _{ac,r})	1-NPE 230 V					
Max. output voltage	270 V					
Output frequency	60 Hz					
Operating frequency range	59.3 Hz - 60.5 Hz					
Total harmonic distortion (THD)	< 5 %					
Power factor (at nominal output power)	1					

GENERAL DATA	IG 2000	IG 3000	IG 2500 LV	IG 4000	IG 5100	IG 4500 LV
Dimensions (W x H x D)	16.5 x 18.5 x 8.7			16.5 x 28.3 x 8.7		
Weight	26 lb.			41.8 lb.		
Degree of protection	IP 21 / IP 45 ¹⁾					
Protection class	1					
Overtoltage category (DC / AC)	2 / 3					
Night-time consumption	< 1 W					
Inverter concept	HF transformer					
Cooling	Controlled forced ventilation, variable speed fan					
Installation	Indoor and outdoor installation ¹⁾					
Ambient temperature range	from -5°F - +122°F (-20°C - +50°C)					
DC reverse polarity protection	Internal diode					
Certificates and compliance with standards	UL 1741-2005, IEEE 1547-2003, IEE 1547.1, ANSI/IEE 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					

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/ Perfect Welding / Solar Energy / Perfect Charging

WE HAVE THREE DIVISIONS AND ONE PASSION: SHIFTING THE LIMITS OF POSSIBILITY.

/ Whether welding technology, photovoltaics or battery charging technology – our goal is clearly defined: to be the innovation leader. With around 3,000 employees worldwide, we shift the limits of what's possible - our more than 850 active patents are testimony to this. While others progress step by step, we innovate in leaps and bounds. Just as we've always done. The responsible use of our resources forms the basis of our corporate policy.

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