

Maximum energy harvest –
cloudy or clear



Fronius **IG Plus** PV Inverter

The first complete solution. Reliable. Proven. Smart.

An outstanding addition to the family: The next generation Fronius IG Plus inverter builds on a successful model with multiple enhancements, including maximum power harvest, a built-in six circuit string combiner, integrated, lockable DC Disconnect, significantly improved efficiency, and unbeatable reliability. New, larger power stages expand the proven Fronius IG family from 2 to 12 kW in a single inverter.



POWERING YOUR FUTURE

INPUT DATA	Fronius IG Plus	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}	10.0-1 _{UNI}	11.4-1 _{UNI}	11.4-3 _{Delta}	12.0-3 _{WYE277}
Recommended PV-Power (Wp)		2500-3450	3200-4400	4250-5750	5100-6900	6350-8600	8500-11500	9700-13100	9700-13100	10200-13800
MPPT-Voltage Range		230 ... 500 V								
DC Startup Voltage		245 V								
Max. Input Voltage (at 1000 W/m ²)		600 V								
14°F (-10°C) in open circuit operation		600 V								
Nominal Input Current		8.3 A	10.5 A	13.8 A	16.6 A	20.7 A	27.6 A	31.4 A	31.4 A	33.1 A
Max. usable Input Current		14.0 A	17.8 A	23.4 A	28.1 A	35.1 A	46.7 A	53.3 A	53.3 A	56.1 A
Admissible conductor size (DC)		No. 14 - 6 AWG								
Number of DC Input Terminals		6								
Max. Current per DC Input Terminal		20 A; Bus bar available for higher input currents								

OUTPUT DATA	Fronius IG Plus	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}	10.0-1 _{UNI}	11.4-1 _{UNI}	11.4-3 _{Delta}	12.0-3 _{WYE277}
Nominal output power (P _{AC nom})		3000 W	3800 W	5000 W	6000 W	7500 W	9995 W	11400 W	11400 W	12000 W
Max. continuous output power										
104°F (40°C) 208 V / 240 V / 277 V		3000 W	3800 W	5000 W	6000 W	7500 W	9995 W	11400 W	11400 W	12000 W
Nominal AC output voltage		208 V / 240 V / 277 V							208 V / 240 V	277 V
Operating AC voltage range	208 V	183 - 229 V (-12 / +10 %)								
(default)	240 V	211 - 264 V (-12 / +10 %)								
	277 V	244 - 305 V (-12 / +10 %)								
Max. continuous output current	208 V	14.4 A	18.3 A	24.0 A	28.8 A	36.1 A	48.1 A	54.8 A	31.6 A*	n.a.
	240 V	12.5 A	15.8 A	20.8 A	25.0 A	31.3 A	41.7 A	47.5 A	27.4 A*	n.a.
	277 V	10.8 A	13.7 A	18.1 A	21.7 A	27.1 A	36.1 A	41.2 A	n.a.	14.4 A*
Admissible conductor size (AC)		No. 14 - 4 AWG								
Max. continuous utility back feed current		0 A								
Nominal output frequency		60 Hz								
Operating frequency range		59.3 - 60.5 Hz								
Total harmonic distortion		< 3 %								
Power factor		1								

GENERAL DATA	Fronius IG Plus	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}	10.0-1 _{UNI}	11.4-1 _{UNI}	11.4-3 _{Delta}	12.0-3 _{WYE277}	
Max. Efficiency		96.2 %									
CEC Efficiency	208 V	95.0 %	95.0 %	95.5 %	95.5 %	95.0 %	95.0 %	95.5 %	95.0 %	n.a.	
	240 V	95.5 %	95.5 %	95.5 %	96.0 %	95.5 %	95.5 %	96.0 %	95.5 %	n.a.	
	277 V	95.5 %	95.5 %	96.0 %	96.0 %	96.0 %	96.0 %	96.0 %	n.a.	96.0 %	
Consumption in standby (night)		< 1 W									
Consumption during operation		8 W			15 W			22 W			
Cooling		Controlled forced ventilation, variable fan speed									
Enclosure Type		NEMA 3R									
Unit Dimensions (W x H x D)		17.1 x 24.8 x 9.6 in.			17.1 x 36.4 x 9.6 in.			17.1 x 48.1 x 9.6 in.			
Power Stack Weight		31 lbs. (14 kg)			57 lbs. (26 kg)			82 lbs. (37 kg)			
Wiring Compartment Weight		24 lbs. (11 kg)			26 lbs. (12 kg)			26 lbs. (12 kg)			
Admissible ambient operating temperature		-4 ... 122°F (-20 ... +50°C)									
Compliance		UL 1741-2005, IEEE 1547-2003, IEEE 1547.1, ANSI/IEEE C62.41, FCC Part 15 A & B, NEC Article 690, C22. 2 No. 107.1-01 (Sept. 2001)									

PROTECTION DEVICES	Fronius IG Plus	3.0-1 _{UNI}	3.8-1 _{UNI}	5.0-1 _{UNI}	6.0-1 _{UNI}	7.5-1 _{UNI}	10.0-1 _{UNI}	11.4-1 _{UNI}	11.4-3 _{Delta}	12.0-3 _{WYE277}
Ground fault protection		Internal GFDI (Ground Fault Detector/Interrupter); in accordance with UL 1741-2005 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								

* per Phase



Fronius USA LLC Solar Electronic Division
 10421 Citation Drive, Suite 1100, Brighton, Michigan, 48116
 E-Mail: pv-us@fronius.com
www.fronius-usa.com
<http://www.wholesalesolar.com/inverters.html>

Text and illustrations are technically correct at the time of going to print. The right to make modifications is reserved. This document may not be copied or reproduced in any form, not even in part, without prior written consent of Fronius International GmbH. 40.0006,2981,AE v01 2009 as02