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.

Fronius

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/m² 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 (default)	208 V	183 - 229 V (-12 / +10 %)								
	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

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