

# FRONIUS IG PLUS ADVANCED WITH INTEGRATED AFCI

/ Arc Fault Circuit  
Interruption

/ MIX Technology

/ Smart Transformer  
Switching

/ Field Serviceable

/ Smart Grid  
Ready

/ The Fronius IG Plus Advanced is the next generation of the renown Fronius IG Plus series. One of the first CSA-certified inverter lines with integrated arc fault protection available in Canada, the Fronius IG Plus Advanced offers a safe and cost-effective one-box solution to the Canadian Electric Code AFCI requirements. It also comes equipped with a built-in Fronius Com Card for easier and faster monitoring installations in the field.

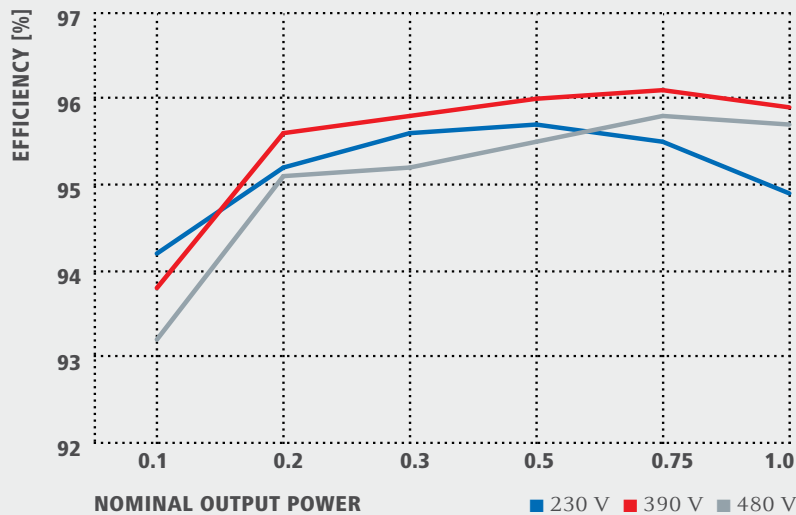
Power classes range from 3 to 12 kW, for both single and three-phase applications. As always, these inverters feature our unique Master Inverter eXchange Technology and accurate MPP tracker for superior yield in all weather conditions. The Fronius IG Plus Advanced is field serviceable by certified Fronius Service Partners.

*\*In Canada, the Fronius IG Plus Advanced is available both Ontario domestic content compliant (DCC) and non-domestic content compliant.*

## TECHNICAL DATA: FRONIUS IG PLUS ADVANCED

INPUT DATA	3.0-1 <sub>UNI</sub>	3.8-1 <sub>UNI</sub>	5.0-1 <sub>UNI</sub>	6.0-1 <sub>UNI</sub>	7.5-1 <sub>UNI</sub>	10.0-1 <sub>UNI</sub>	11.4-1 <sub>UNI</sub>	10.0-3 <sub>DELTA</sub>	11.4-3 <sub>DELTA</sub>	12.0-3 <sub>WYE277</sub>	
Recommended PV power (kWp)	2.50 - 3.45	3.20 - 4.40	4.25 - 5.75	5.10 - 6.90	6.35 - 8.60	8.50 - 11.50	9.70 - 13.10	8.50 - 11.50	9.70 - 13.10	10.20 - 13.80	
Nominal input current	8.3 A	10.5 A	13.8 A	16.5 A	20.7 A	27.6 A	31.4 A	27.6 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	46.8 A	53.3 A	46.7 A	53.3 A	56.1 A	
MPPT voltage range	230 - 500 V										
DC startup voltage	260 V										
Max. input voltage	600 V										
Admissible conductor size (DC)	No. 14 to 6 AWG. For larger wire, use Fronius bus bar.										
Max. current per DC input terminal	20 Amps. For higher input current, use Fronius bus bar.										
OUTPUT DATA	3.0-1 <sub>UNI</sub>	3.8-1 <sub>UNI</sub>	5.0-1 <sub>UNI</sub>	6.0-1 <sub>UNI</sub>	7.5-1 <sub>UNI</sub>	10.0-1 <sub>UNI</sub>	11.4-1 <sub>UNI</sub>	10.0-3 <sub>DELTA</sub>	11.4-3 <sub>DELTA</sub>	12.0-3 <sub>WYE277</sub>	
Nominal output power	3,000 W	3,800 W	5,000 W	6,000 W	7,500 W	10,000 W	11,400 W	10,000 W	11,400 W	12,000 W	
Max. continuous output power	3,000 W	3,800 W	5,000 W	6,000 W	7,500 W	10,000 W	11,400 W	10,000 W	11,400 W	12,000 W	
Nominal AC output voltage (V)	120/208/240/277						120/208 240/277	208/240	208/240	277	
Number of phases	1							3			
Grid connection type	2 wire or 3 wire + ground							3 wire or 4 wire + ground 4 wire + ground			
Admissible conductor size (AC)	No. 14 - 4 AWG										
Max. continuous utility backfeed current	0 A										
Nominal output frequency	60 Hz										
Operating frequency range	59.3 - 60.5 Hz										
Total harmonic distortion	< 3 %										
Power factor	0.85 – 1 ind. / cap.										
Operating AC voltage range	208 V	183 - 229 V (-12 / 10%)									
	240 V	211 - 264 V (-12 / 10%)									
	277 V	244 - 305 V (-12 / 10%)									
Nominal AC 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	27.7 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	24.0 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	N/A	14.4 A*

## FRONIUS IG PLUS ADVANCED 10.0-1<sub>UNI</sub> 240 V EFFICIENCY CURVE



## TECHNICAL DATA: FRONIUS IG PLUS ADVANCED

GENERAL DATA		3.0-1 <sub>UNI</sub>	3.8-1 <sub>UNI</sub>	5.0-1 <sub>UNI</sub>	6.0-1 <sub>UNI</sub>	7.5-1 <sub>UNI</sub>	10.0-1 <sub>UNI</sub>	11.4-1 <sub>UNI</sub>	10.0-3 <sub>DELTA</sub>	11.4-3 <sub>DELTA</sub>	12.0-3 <sub>WYE277</sub>
Max. efficiency		96.2%									
Unit dimensions (W x H x D)		17.1 x 24.8 x 9.6 in. 43.4 x 63.1 x 24.4 cm		17.1 x 36.5 x 9.6 in. 51.5 x 108.5 x 35.6 cm			17.1 x 48.1 x 9.6 in. 43.4 x 122.1 x 24.4 cm				
CEC efficiency	208 V	95.0%	95.0%	95.5%	95.5%	95.0%	95.0%	95.0%	95.0%	95.0%	N/A
	240 V	95.5%	95.5%	95.5%	96.0%	95.5%	95.5%	95.5%	95.5%	96.0%	N/A
	277 V	96.0%	96.0%	96.0%	96.0%	96.0%	96.0%	96.0%	N/A	N/A	96.0%
Consumption in standby (Night)		< 1.5 W									
Consumption during operation		8 W		14 W			20 W				
Cooling		Controlled forced ventilation, variable speed fan									
Enclosure type		Type 3R									
Power stack weight		31 lb. (14 kg)		57 lb. (26 kg)			82 lb. (37 kg)				
Wiring compartment weight		24 lb. (11 kg)		26 lb. (12 kg)			26 lb. (12 kg)				
Admissible ambient operating temperature		-13 F to 131 F (-25 C to 55 C)									
Advanced grid features		Active and reactive power control, low voltage ride-through									
Compliance		UL 1741-2010, IEEE 1547-2003, IEEE 1547.1, UL 1699B-2013, ANSI/IEEE C62.41, FCC Part 15 A & B, NEC Article 690, C22. 2 No. 107.1-01 (Sept. 2011) California Solar Initiative - Program Handbook - Appendix C: Inverter Integral 5% Meter Performance Specification, CSA TIL M-07 Issue 1-2013									
PROTECTIVE EQUIPMENT		3.0-1 <sub>UNI</sub>	3.8-1 <sub>UNI</sub>	5.0-1 <sub>UNI</sub>	6.0-1 <sub>UNI</sub>	7.5-1 <sub>UNI</sub>	10.0-1 <sub>UNI</sub>	11.4-1 <sub>UNI</sub>	10.0-3 <sub>DELTA</sub>	11.4-3 <sub>DELTA</sub>	12.0-3 <sub>WYE277</sub>
Ground fault protection		Internal GFDI (Ground Fault Detector/Interrupter) in accordance with UL 1741-2010 and NEC Art. 690									
DC reverse polarity protection		Internal diode									
Islanding protection		Internal; in accordance with UL 1741-2010, IEEE 1547-2003 and NEC									
Over temperature protection		Output power derating / active cooling									
Arc fault circuit protection		Internal AFCI (Arc Fault Circuit Interrupter); in accordance with UL 1699B Outline of Investigation for Photovoltaic (PV) DC Arc-Fault Circuit Protection (Issue Number 2, January 14, 2013), CSA TIL M-07 Issue 1-2013									

/ Perfect Welding / Solar Energy / Perfect Charging

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/ 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. Further information about all Fronius products and our global sales partners can be found at [www.fronius.com](http://www.fronius.com).

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