



- ▼ Grid-connected PV inverters
  - ▶ Fronius IG
  - ▼ Fronius IG Plus
    - ▶ Fronius IG Plus 3.0-1 uni - 3.8-1 uni
    - ▼ Fronius IG Plus 5.0-1 uni - 7.5-1 uni
      - ▶ Fronius IG Plus 10.0-1 uni, 11.4-1 uni, 11.4-3 Delta and 12.0-3 WYE277
  - ▶ System monitoring and datalogging
  - ▶ Training and Webinars
  - ▶ Warranty Information

Products | Grid-connected PV inverters | Fronius IG Plus | Fronius IG Plus 5.0-1 uni - 7.5-1 uni

## Fronius IG Plus 5.0-1 uni - 7.5-1 uni



[Zoom](#)

- + Maximum Earnings Security
- + Highest Reliability
- + First Universal Inverter

This two power stage inverter is available in 5.0, 6.0 and 7.5 kW and is field programmable to 208, 240 or 277 volts. Best suited for residential and smaller commercial applications.

Available Fronius IG Plus Two Stage Inverters:

- 5.0-1 UNI
- 6.0-1 UNI
- 7.5-1 UNI

[Operating Manual](#)

- Technical Data
- Equipment features
- Technology

### Technical Data

Fronius IG Plus	5.0-1 UNI	6.0-1 UNI < DIV >	7.5-1 UNI
<b>Input data</b>			
Recommended PV-Power (Wp)	4250-5750	5100-6900	6350-8600
MPPT-Voltage range	230 - 500 V		
Max. Input voltage range (at 1000 W/m <sup>2</sup> 14°F (-10°C) in open circuit operation)	600 V		
Nominal Input Current	13.8 A	16.6 A	20.7 A
Max. usable Input Current	23.4 A	28.1 A	35.1 A
Admissible conductor size (DC)	No. 14-6 AWG		

### Output data

Nominal output power (PAC nom)	5000 W	6000 W	7500 W
Max. continuous output power 104°F (40°C) 208 V / 240 V / 277 V	5000 W	6000 W	7500 W
Nominal AC output voltage	208 V / 240 V / 277 V		
Operating AC voltage range (default)	183 - 229 V (-12 / +10 %)		
208 V	211 - 264 V (-12 / +10 %)		
240 V	244 - 305 V (-12 / +10 %)		
277 V			
<b>Maximum continuous output current</b>			
208 V	24.0 A	28.8 A	36.1 A
240 V	20.8 A	25.0 A	31.3 A
277 V	18.1 A	21.7 A	27.1 A
Admissible conductor size (AC)	No. 14 - 4 AWG		

Max. continuous utility back feed current	0 a		
Nominal frequency	60 Hz		
Operating frequency range	59.3 - 60.5 Hz		
Total harmonic distortion	< 3 %		
Power factor	1		
<b>General data</b>			
Max. Efficiency	96.2 %		
CEC Efficiency			
208 V	95.5 %	95.5 %	95.0 %
240 V	95.5 %	96.0 %	95.5 %
277 V	96.0 %	96.0 %	96.0 %
Consumption in standby (night)	< 1 W		
Consumption during operation	15 W		
Cooling	Controlled forced ventilation, variable fan speed		
Enclosure Type	NEMA 3R		
Unit Dimensions (W x H x D)	17.1 x 36.4 x 9.6. in.		
Power Stage Weight	57 lbs. (26 kg)		
Wiring Compartment Weight	26 lbs. (12 kg)		
Admitting ambient operating temperature	-4 ... 122°F (-20 ... + 50°C)		
Compliance	UL 1741-2005, IEEE1547-2003, IEEE 1547.1, ANSI/IEEE C62.41, FCC Part 15 A&B, NEC Article 690, C22. 2 No. 107.1-01 (Sept. 2001)		
<b>Safety equipment</b>			
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		

The right to make technical modifications is reserved.