FRONIUS INTERNATIONAL

SHIFTING THE LIMITS

deutschlenglish

Fronius IG Plus 100 V-2

+ Maximum Earnings Security.
+ Highest Reliability.
+ First All-Round Device.

2-phase inverter with 8 kW max. output, best suited for large pv systems. Also available in a one phase version.

Technical Data

INPUT DATA	Fronius IG Plus 100 V-2
DC maximum power at cos φ=1	8520 W
Max. input current	37.0 A
Max. input voltage	600 V
MPP voltage range	230 - 500 V
OUTPUT DATA	
AC nominal output at cos φ=1	8000 W
Max. output power	8000 VA
Max. output current	17.4 A (34.8 A)*
Max. efficiency	95.7 %
Euro. efficiency	95.2 %
MPP adaption efficiency	> 99.9 %
Grid connection	2~NPE 400 V / 230 V (1~NPE 230 V)
Frequency	50 Hz / 60 Hz
Harmonic distortion	< 3 %
Power factor	0.85 - 1 ind. / cap.
Night consumption	< 1 W
GENERAL DATA	
	968 x 434 x 250 mm

Dimensions (height x width x depth)	
Weight	36.9 kg
Degree of protection	IP 54**
Inverter concept	HF transformer
Cooling	Regulated air cooling
Installation	indoor and outdoor installation
Ambient temperatur range	From -20°C to +55°C
Permitted humidity	0 % to 95 %
SAFETY EQUIPMENT	
DC insulation measurement	Warning/shutdown (depending on country setup) at Riso < 500 kOhm
Overload behavior	Operation point shift, power limiter
DC circuit breaker	integrated

* 1-phase (opt.)
**Please follow the guidelines in the operating instructions for properly installing the inverter.

The right to make technical modifications is reserved.

Equipment features

Grounding on site.

You decide on site, whether or not you want or need to ground the modules. Insert fuse, activate the software - grounding is complete.

For inside and out.

All Fronius IG Plus devices have a robust, well-designed metal housing. UV-resistance and corrosion-protection enable them to be used both inside and out.

Integrated DC disconnect.

No additional installation or cabling is necessary. The highest comfort and safety as per DIN-VDE 0100-712.

The new power plug system.

The connection area and power modules are installed seperately from each other. Very easy, very safe: The connection area is attached to the wall as normal. Then the power module is simply plugged in. The power plug connects both parts into one secure unit. When service is required, the connector remains on the wall - all settings and configurations remain untouched.

Technology

3 efficiency peaks.

More earnings for every system size: The automatic transformer switching function of the Fronius IG Plus makes sure of this. This enables not one, but three equal efficiency peaks. The result: Constant efficiency over a wide input voltage range.

In comparison: The efficiency of inverters without transformer switching declines steadily with an increasing input voltage. Devices without a transformer only have one efficiency peak.

The Fronius IG Plus series scores the highest maximum efficiency grade among HF devices.

Fronius MIX™-Concept.

You get the maximum out of partial load ranges, e.g. on cloudy days, through a clever combination of several power modules. The power modules in Fronius devices divide up the work depending on the operating hours.

Module Manager.

Whoever can always remain at the maximum power point (MPP), can get the most out of each ray of light. This is the job of the Module Manager: For fast, exact MPP tracking. This is especially important for thin-layer modules whose efficiency characteristics are more even.

Well thought out ventilation concept.

Disruptive ambient factors such as dust or moisture remain on the outside: The reason: Cooling air is drawn in on the wall side and routed through a closed channel over the heat sink. This prevents contact with the circuit board. At the same time, the components are kept cool - the device operates with a stable consistency.