

FRONIUS IG INVERTERS

A solar energy system is only as good as its inverter. It manages the system and is thus a central element in delivering your solar yields. The Fronius IG family of inverters offers a wide range of products for every requirement and system size.

Phoenix Solar offers you the greatest possible security for your investment: In addition to the quality control carried out by the manufacturer, a Phoenix Solar technical team also performs stress tests on all products. Random samples of Fronius IG inverters are tested for reliability and performance – providing the best possible security for your power yields!



The advantages at a glance:

- Tested in a RAL certified process, independent of the manufacturer
- High frequency transformer for maximum power in the smallest space
- Clever MPP tracking increases yields under partial loading
- Galvanic isolation ideal for thin-film modules
- Easy to maintain modular construction allowing individual configuration and simple expansion
- Quick and convenient remote system monitoring
- Automatic warning feature and notification via e-mail or text message
- 5 year product guarantee* – optionally extendable to 10 years
- 24-hour replacement service and customer hotline

* the guarantee conditions of the manufacturer apply

Experience pays off

Phoenix Solar or your local Phoenix Solar partner chooses the optimal inverter to suit your solar energy system. All our sales partners are highly competent, with years of experience in solar technology, and are selected by us using the strictest quality criteria.

SECURING YIELDS FOR THE LONG TERM – EVERY SOLAR CENT COUNTS

With a solar energy system you silently produce emission-free energy – a nice feeling to earn money this way! However, because your system is so silent, an additional continuous monitoring system is to be recommended. This allows you to ensure that yield performance also remains at the maximum on the long term and that any changes in status can be identified early.

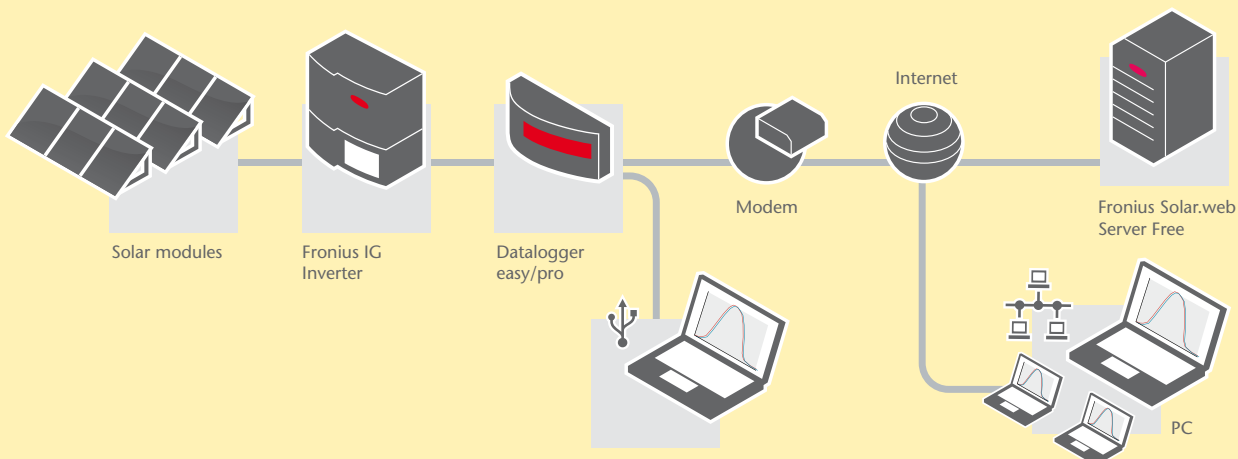
Fronius control, analysis and monitoring systems are easy to install, are intuitive to operate, and work with utmost precision. Depending on system size and your individual requirements, there are various options to choose from.

Fronius IG Datalogger easy/pro: Standard reliable system monitoring

Increased investment volume for larger PV systems also increases the need for automated yield analysis and yield monitoring. Today, thanks to modern transmission technology, it is easy to realise convenient data acquisition, visualisation and analysis of entire systems. The Phoenix Solar technical team recommends the Fronius IG Datalogger easy/pro for this. Available as a plug-in card for the inverter, or as a self-contained box, this device can acquire and store the performance data of up to 100 inverters. For more demanding requirements, in addition



to the inverters a so-called Fronius IG Sensor Card/Box can also be used to connect various sensors for measuring weathering influences.



The advantages of the Fronius IG Datalogger easy/pro:

- Early detection of operational faults, also for very remote systems
- Data storage for analysis, e.g. using Microsoft Excel
- Diagnosis and system monitoring using any PC: Windows, Linux & Mac OS
- Monitoring of up to 100 inverters
- Direct data transfer to a PC via a USB interface if required
- Connection to a GSM modem is possible (if no telephone connection is available)
- Available as a plug-in card or external device
- Automatic notification via text message or e-mail if a fault occurs

Fronius IG Personal Display: System monitoring

- Wireless communication minimises installation work
- Continual monitoring of performance data for up to 15 inverters
- Easy to use, intuitive interface
- Easy to upgrade



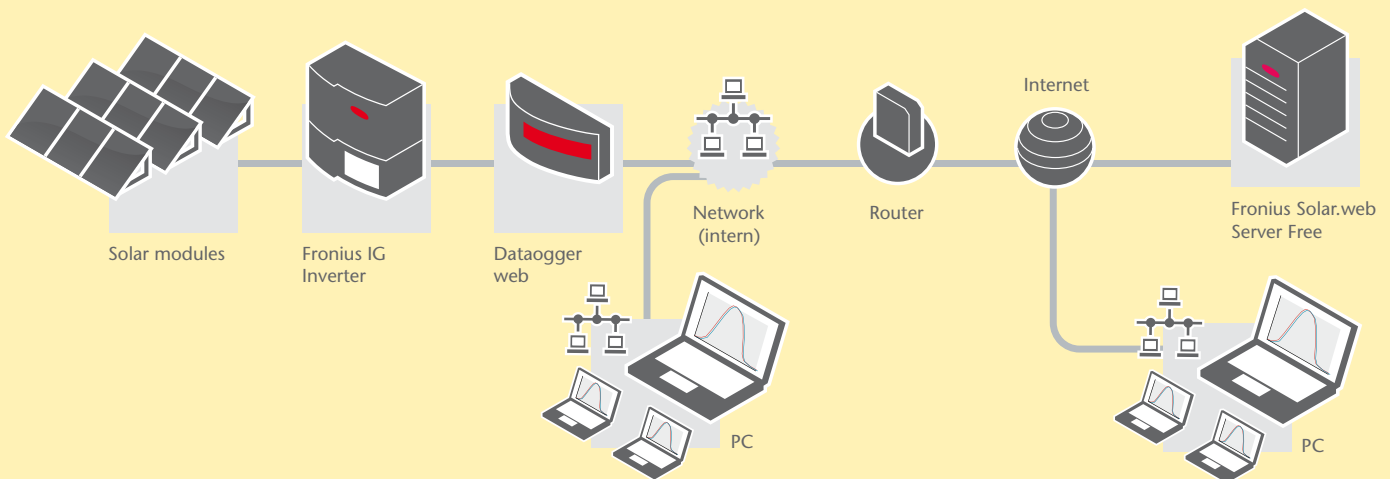
Display options of the Fronius IG Personal Display:

Current power, daily and monthly data, cumulative system yields, power of individual inverters, feed-in compensation, amount of CO₂ avoided, and more.

Fronius IG Datalogger web: Innovative Ethernet technology for professional system monitoring in real time

The Fronius IG Datalogger web, based on Ethernet technology, represents the consistent advancement of professional remote monitoring of solar energy systems. Thanks to the integrated Ethernet interface, it can easily be integrated into existing network structures, and functions as an independent web server which automatically visualises the information as a website.

Thus, regardless of the operating system, several users can simultaneously access essential system information and read archive data or current data from systems with up to 100 inverters in real time. Moreover, in combination with the free software Fronius Solar.access, this data logger enables direct system control as well as detailed data preparation at an on-site PC.



The advantages of the Fronius IG Datalogger web:

- Diverse communication channels for professional PV system monitoring
- Unrestricted use of modern data transfer via LAN/WLAN, XDSL, ADSL, UMTS, cable, Powerline etc.
- Automatic service messages via email or SMS
- Clearly laid-out representation on the Internet platform Fronius Solar.web
- Worldwide online access to real-time data and archive data around the clock
- Monitoring of up to 100 inverters
- No installation software or software configuration

Fronius IG inverters

At Fronius you will find inverters for every size of system. The modular construction of the FRONIUS IG system allows you to individually assemble your system – or upgrade it later.

Model description	IG 15	IG 20	IG 30	IG 40	IG 60 HV
Material number	100468	100469	100470	100471	100456
Max. DC power (W)	2000	2700	3600	5500	6700
Min. MPP voltage (V)	150	150	150	150	150
Max. MPP voltage (V)	400	400	400	400	400
Max. DC voltage (V)	500	500	500	500	530
Max. DC current (A)	10.80	14.30	19	29.40	35.80
Rated AC power (Wp)	1300	1800	2500	3500	4600
Max. AC power (Wp)	1500	2000	2650	4100	5000
Max. efficiency (%)	94.20	94.30	94.30	94.30	94.30
European efficiency (%)	91.40	92.30	92.70	93.50	93.50
Transformer	yes	yes	yes	yes	yes
Weight (kg)	9/12	9/12	9/12	16/20	16/20
Width (mm)	366/500*	366/500*	366/500*	610/733*	610/733*
Height (mm)	344/435*	344/435*	344/435*	344/435*	344/435*
Depth (mm)	220/225*	220/225*	220/225*	220/225*	220/225*
IP protection degree	21/45*	21/45*	21/45*	21/45*	21/45*
Number of strings	5	5	5	5	5
Temperature range (°C)	-20 to +50 °C for all inverters				
Integrated DC circuit breaker	no	no	no	no	no
Multi-Contact™	no	no	no	no	no
AC plug	no	no	no	no	no

* Fronius IG Indoor/Outdoor

Source: Fronius, subject to errors and technical modifications

The manufacturer Fronius

The name Fronius has stood for quality products for conversion of electrical energy since 1945. These years of experience pay off: The Fronius product guarantee can be extended up to a maximum of ten years.

If a Fronius inverter should ever fail, then you have the security of a 24-hour replacement service. In addition to this, Fronius also accepts old devices and properly recycles them.