

CENTRAL INVERTERS

Fronius IG 300, IG 390, IG 400, IG 500



PRODUCT ADVANTAGES:

Innovative ventilation system impedes room heating and dust deposits

Module Manager™ guarantees maximum performance through Maximum Power Point (MPP)

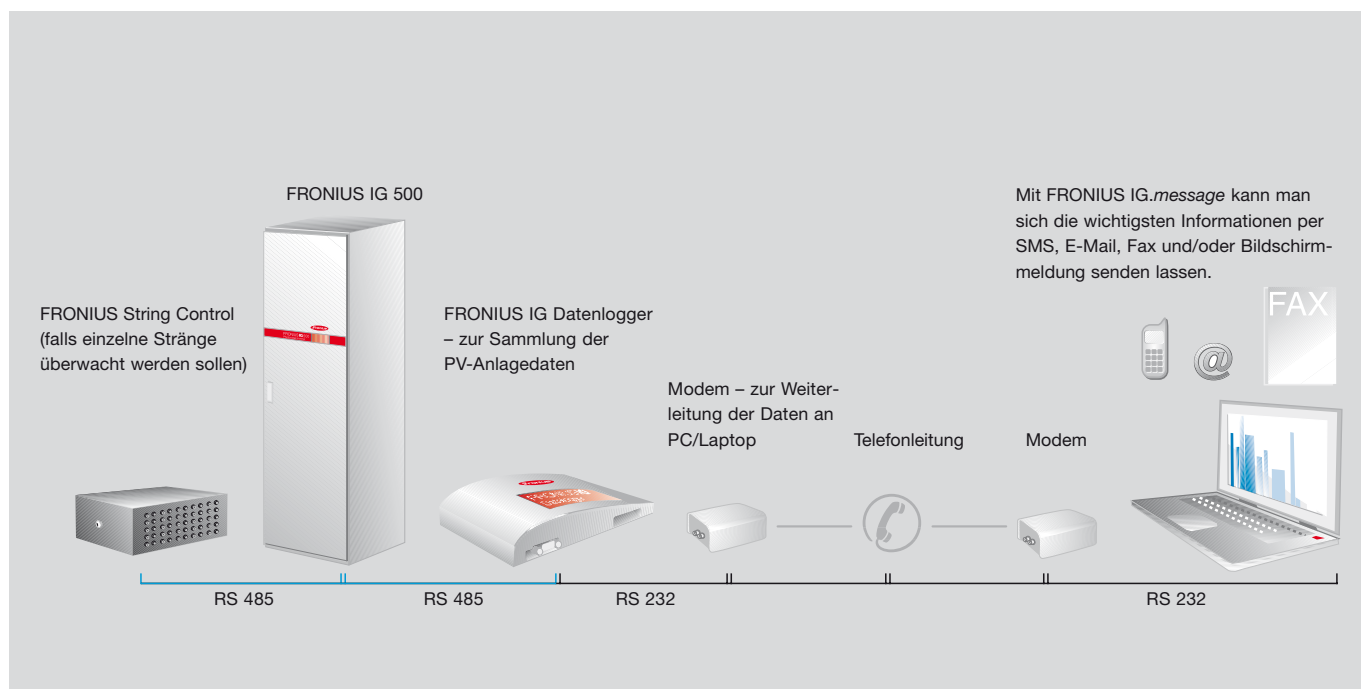
Fault redundant system for continuous power generation with the MIX™ concept.

Removable power modules permit simple installation

Electrical isolation guarantees the highest level of protection

Integrated COM card ensures optimal system monitoring

Simple self-explanatory display



Central inverter with accessories

Technical data

Fronius	IG 300*	IG 390*	IG 400	IG 500
Input data				
MPP voltage range	210 V – 420 V	210 V – 420 V	210 V – 420 V	210 V – 420 V
Max. input voltage	530 V	530 V	530 V	530 V
Recommended PV system output	24 kWp – 31 kWp	25 kWp – 42 kWp	32 kWp – 42 kWp	40 kWp – 52 kWp
Max. input current	123 A	164 A	164 A	205 A

Output data

Rated output	24 kW	29.9 kW	32 kW	40 kW
Max. output power	24 kW	32 kW	32 kW	40 kW
Max. efficiency	94,3 %	94,3 %	94,3 %	94,3 %
Euro efficiency	93,3 %	93,4 %	93,4 %	93,5 %
Grid voltage/frequency	3NPE ~ 400 V/50 Hz	3NPE ~ 400 V/50 Hz	3NPE ~ 400 V/50 Hz	3NPE ~ 400 V/50 Hz
Distortion factor	< 5 %	< 5 %	< 5 %	< 5 %
Power factor	1	1	1	1
Own consumption at night	9 W	9 W	9 W	9 W

General data

Dimensions (LxWxH)

IP20 with base (200 mm)

up to the upper edge of the exhaust pipe

600 x 600 x 2557 mm

Dimensions (LxWxH)

IP43 with base (200 mm)

1112.5 x 600 x 2444.5 mm

Weight	225 kg	245 kg	245 kg	265 kg
Cooling	Controlled forced ventilation			
Housing varieties	IP 20 (IP 43)	IP 20 (IP 43)	IP 20 (IP 43)	IP 20 (IP 43)
Ambient temperature range	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C	-20 °C to +50 °C
Permissible humidity	0 – 95 %	0 – 95 %	0 – 95 %	0 – 95 %

Protective equipment

DC isolation monitoring	Warning at $R_{iso} < 500 \text{ kOhm}$
Behavior under DC overload	Operating point displacement

Article numbers	320020300	320020390	320020400	320020500
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* During the installation of a FRONIUS IG 300 or 390, it's possible to request the integration of an external 3-phase ENS (or a disconnection device which always remains accessible as an alternative) from your energy supplier. The ENS is not included within the scope of delivery of a FRONIUS IG 300 or 390.