

STRING INVERTERS

Fronius IG Plus 35, IG Plus 50, IG Plus 70, IG Plus 100, IG Plus 120, IG Plus 150



PRODUCT ADVANTAGES:

Convincing graphic display

Simple and fast installation

Utmost reliability in terms of functionability

A wide input voltage range ensures a constant efficiency level

Quick and precise reaction to the slightest modifications of the weather conditions

Power classes from 3.5 to 12 kW

IP44 protection degree for indoor and outdoor installations

Integrated DC circuit breaker pursuant to DIN VDE 0100-712

Innovative power plug system

Connection area and power modules are installed separately from one another



Fronius IG Plus 35 / Fronius IG Plus 50
Strong and compact. Perfectly suitable for systems up to 4 kW. The 1-phase device for efficient photovoltaic systems such as for single family houses.



Fronius IG Plus 70 / Fronius IG Plus 100
The 2-phase devices for large systems with an output power of 6.5 or 8 kW. 1-phase devices are available on request.



Fronius IG Plus 120 / Fronius IG Plus 150
Maximum strength. Three-phases in one device for mega-systems, available with 10 or 12 kW output power. The only wall mounted unit on the market in these power classes.

TECHNICAL DATA

Input data Fronius IG Plus		35	50	70	100	120	150
Rated DC output	W	3700	4200	6800	8400	10500	12600
MPP voltage range	V	230–500	230–500	230–500	230–500	230–500	230–500
Max. input voltage (at 1000 W/m ² , –10 °C)	V	600	600	600	600	600	600
Max. input current	A	16.0	18.3	29.7	36.6	45.8	54.9
Output data							
Rated AC output	W	3500	4000	6500	8000	10000	12000
Max. output power	W	3500	4000	6500	8000	10000	12000
Max. efficiency	%	96,0	96,0	96,0	96,0	96,0	96,0
Euro efficiency	%	95,0	95,1	95,4	95,5	95,5	95,5
MPP adaptation efficiency	%	99,9	99,9	99,9	99,9	99,9	99,9
Grid voltage/frequency	V/Hz	230/50 (60)	230/50 (60)	230/50 (60)	230/50 (60)	230/50 (60)	230/50 (60)
Grid connection		1-phase	1-phase	2-phase	2-phase	3-phase	3-phase
Distortion factor	%	<3,5	<3,5	<3,5	<3,5	<3,5	<3,5
Power factor cos φ		1	1	1	1	1	1
Own consumption at night	W	1	1	1	1	1	1
General data							
Dimensions (H x W x D)	mm	631 x 434 x 244		926 x 434 x 244		1221 x 434 x 244	
Weight connection area	kg	11	11	11	11	11	11
Weight power operation area	kg	14	14	26	26	38	38
Housing		Metal housing for indoor and outdoor installations					
Cooling		Controlled ventilation					
Protection degree		IP44					
Ambient temperature range	°C	–20 to +50					
Permissible humidity	%	0 to 95					
Protective equipment							
DC isolation monitoring	kOhm	Warning if R _{ISO} < 500					
Overload behavior		Operating point displacement, output limitation					
DC circuit breaker		Integrated					
Article numbers		3000210035	3000210050	3000210072	30002100102	3000210120	3000210150

Subject to modifications that represent progress.

08-2008