



Fronius Primo

Inverter Fronius Primo from 3.8 kW to 15.0 kW power range

The future of residential solar is here

With power categories ranging from 3.8 kW to 15.0 kW, the transformerless Fronius Primo is the ideal compact single-phase inverter for residential applications. Is equipped with the SnapINverter hinge mounting system which allows for lightweight, secure and convenient installation. The Fronius Primo features include dual powerpoint trackers, high system voltage, Wi-Fi* and SunSpec Modbus interface, and Fronius online and mobile monitoring platform Fronius Solar.web.

FEATURES:

- PC board replacement process
- SnapINverter mounting system
- Wi-Fi®* interface
- SuperFlex Design
- Smart Grid Ready
- Arc Fault Circuit Interruption

TECHNICAL DATA FRONIUS PRIMO

INPUT DATA

	PRIMO 3.8-1	PRIMO 5.0-1	PRIMO 6.0-1	PRIMO 7.6-1	PRIMO 8.2-1	PRIMO 10.0-1	PRIMO 11.4-1	PRIMO 12.5-1	PRIMO 15.0-1
Recommended PV power (kWp)	3.0 - 6.0 kW	4.0 - 7.8 kW	4.8 - 9.3 kW	6.1 - 11.7 kW	6.6 - 12.7 kW	8.0 - 12.0 kW	9.1 - 13.7 kW	10.0 - 15.0 kW	12.0 - 18.0 kW
Max. usable input current (MPPT 1/MPPT 2)	18 A / 18 A	18 A / 18 A	18 A / 18 A	18 A / 18 A	18 A / 18 A	33.0 A / 18.0 A	33.0 A / 18.0 A	33.0 A / 18.0 A	33.0 A / 18.0 A
Total max.DC current	36 A	36 A	36 A	36 A	36 A	51 A	51 A	51 A	51 A
Max.array short circuit current (1.25 I _{max}) (MPPT 1/MPPT2)	22.5 A / 22.5 A	22.5 A / 22.5 A	22.5 A / 22.5 A	22.5 A / 22.5 A	22.5 A / 22.5 A	41.3 A / 22.5 A	41.3 A / 22.5 A	41.3 A / 22.5 A	41.3 A / 22.5 A
Operating voltage range	80 V - 600 V	80 V - 600 V	80 V - 600 V	80 V - 600 V	80 V - 600 V	80 V - 600 V	80 V - 600 V	80 V - 600 V	80 V - 600 V
Max.input voltage Nominal	600 V	600 V	600 V	600 V	600 V	600 V	600 V	600 V	600 V
Nominal input voltage	410 V	420 V	420 V	420 V	420 V	415 V	420 V	425 V	440 V
Admissible conductor size DC	AWG 14 - AWG 6	AWG 14 - AWG 6	AWG 14 - AWG 6	AWG 14 - AWG 6	AWG 14 - AWG 6	(*)	(*)	(*)	(*)
MPP Voltage Range	200 - 480 V	240 - 480 V	200 - 480 V	250 - 480 V	270 - 480 V	220 - 480 V	240 - 480 V	260 - 480 V	320 - 480 V
Number of MPPT	2	2	2	2	2	2	2	2	2
Integrated DC string fuse holders	4- and 4+ for MPPT 1 / no fusing required on MPPT 2								

(*) AWG 14 - AWG 6 copper direct, AWG 6 aluminum direct (AWG 10 copper or AWG 8 aluminium for overcurrent protective devices up to 60A, from 61 to 100A minimum AWG 8 for copper or AWG 6 aluminium has to be used), AWG 4 - AWG 2 copper or aluminum with optional input combiner

OUTPUT DATA

		PRIMO 3.8-1	PRIMO 5.0-1	PRIMO 6.0-1	PRIMO 7.6-1	PRIMO 8.2-1	PRIMO 10.0-1	PRIMO 11.4-1	PRIMO 12.5-1	PRIMO 12.5-1	
Max. output power	240 V	3800 W	5000 W	6000 W	7600 W	8200 W	9995 W	11400 W	12500 W	15000 W	
	208 V	3800 W	5000 W	6000 W	7600 W	8200 W	9995 W	11400 W	12500 W	13750 W	
Max. continuous output current	240 V	15.8 A	20.8 A	25.0 A	31.7 A	34.2 A	41.6 A	47.5 A	52.1 A	34.2 A	
	208 V	18.3 A	24.0 A	28.8 A	36.5 A	38.0 A	48.1 A	54.8 A	60.1 A	38.0 A	
Recommended OCPD/AC breaker size	240 V	20 A	30 A	35 A	40 A	45 A	60 A	60 A	70 A	45 A	
	208 V	25 A	30 A	40 A	50 A	50 A	70 A	70 A	80 A	50 A	
Max. Efficiency		96.7%	96.9%	96.9%	96.9%	97%	96.7%	96.7%	96.7%	96.7%	
CEC Efficiency	240 V	95.0%	95.5%	95.5%	96%	96.5%	96.0%	96.0%	96.0%	96.5%	
Admissible conductor size AC		200 - 480 V	240 - 480 V	200 - 480 V	250 - 480 V	270 - 480 V	208 / 240 V (*)	(*)	(*)	(*)	
Frequency		60 Hz									
Total harmonic distortion		< 5.0%					< 2.5%				
Power factor (cos φ _{ac,r})		0.85-1 ind./cap					0-1 ind./cap.				

(*) AWG 10 - AWG 2 copper (solid /stranded /fine stranded)(AWG 10 copper or AWG 8 aluminium for overcurrent protective devices up to 60A, from 61 to 100A minimum AWG 8 for copper or AWG 6 aluminium has to be used) ,AWG 6 - AWG 2 copper(solid /stranded) MultiContactWiringable with AWG 12