FRONIUS PRIMO

/ The communicative inverter for optimised energy management.

/ The Fronius Primo in power categories from 3.0 to 8.2 kW perfectly complements the SnapINverter generation. This single-phase, transformerless device is the ideal inverter for private households. Its innovative SuperFlex Design provides maximum flexibility in system design, while the SnapINverter mounting system makes installation and maintenance easier than ever before. The communication package included as standard, with WLAN, energy management, several interfaces and much more besides, makes the Fronius Primo a communicative inverter for home owners.

THE ADVANTAGES AT A GLANCE

/ WLAN and Ethernet connections as standard for extremely easy integration of third-party components

/ Optimisation of self-consumption thanks to integrated energy management relay and digital energy management output

/ Maximum design flexibility provided by two MPP trackers, high system voltage and wide input voltage range

/ Dynamic Peak Manager for continuous, intelligent yield optimisation

/ Easy installation and maintenance thanks to SnapINverter technology

/ Ideal for use as a repowering inverter

/ SnapINverter technology

/ Integrated data communication

/ SuperFlex Design

/ Dynamic Peak Manager

/ Smart Grid Ready

/ Zero feed-in

FRONIUS PRIMO
3.0-1 / 3.5-1 / 3.6-1 / 4.0-1 / 4.6-1 / 5.0-1 / 6.0-1 / 8.2-1

INPUT DATA	FRONIUS PRIMO
Number of MPP trackers	2
Max. input current ($I_{dc\,max\,1}$ / $I_{dc\,max\,2}$)	12.0 A / 12.0 A or 18.0 A / 18.0 A
DC input voltage range ($U_{dc\,min}$ - $U_{dc\,max}$)	80 - 1000 V
Number of DC connections	2+2

OUTPUT DATA	FRONIUS PRIMO
AC nominal output ($P_{ac,r}$)	3.0 - 8.2 kW
Max. output power	3.0 - 8.2 kVA
Grid connection (voltage range)	1 - NPE: 220 V / 230 V (180 V - 270 V)
Frequency (frequency range)	50 Hz / 60 Hz (45 - 65 Hz)

GENERAL DATA	
Dimensions (height x width x depth)	645 x 431 x 204 mm
Weight	21.5 kg
Degree of protection	IP 65
Night-time consumption	< 1 W
Inverter concept	Transformerless
Ambient temperature range	-40 - +55 °C

EFFICIENCY	FRONIUS PRIMO
Max. efficiency	98.0 / 98.0 / 98.0 / 98.1 / 98.1 / 98.1 / 98.1 / 98.1 / 98.1 %
European efficiency	96.1 / 96.8 / 96.8 / 97.0 / 97.0 / 97.1 / 97.1 / 97.3 / 97.5%

INTERFACES	FRONIUS PRIMO
WLAN / Ethernet LAN	Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON)
6 inputs and 4 digital inputs/outputs	Interface to ripple control receiver
USB (type A socket)	Data logging, inverter update via USB flash drive
2x RS422 (RJ45 socket)	Fronius Solar Net
Signalling output	Energy management (floating relay output)
Datalogger and web server	Integrated
External input	S0 meter connection / Evaluation of overvoltage protection
RS485	Modbus RTU SunSpec or meter connection