

FRONIUS SYMO 5.0-3-M

Product code: F.Fronius.3F.wifi.00050-M



Manufacturer	FRONIUS
Inverter type	On-grid
Inverter phases	3
Max. AC power	5000
Output power	5000
Circuit breaker value	16
MPPT	2
Amperage	16
WIFI	Tak
Ethernet	No
Compatible optimizers	Tigo
Warranty	10
CN code number	85044085
Quantity per pallet	12
Country of origin	Austria
Weight	20
Width	43
Height	64
Depth	20

Thanks to the diverse power classes ranging from 3.0 to 8.2 kW, the three-phase Fronius Symo inverter is an excellent solution for use in installations of various sizes. The SuperFlex Design construction makes the Fronius Symo device perfectly suited for curved or differently structured roofs. Easy internet connection via WLAN or Ethernet interface, as well as the possibility of seamless integration with components from other manufacturers, make the Fronius Symo inverter one of the most "communicative" devices available on the market. Additionally, thanks to the meter connection, dynamic power management and transparent visualization of energy consumption are possible.

Product variants

Index	Price
FRONIUS SYMO 5.0-3-M F.Fronius.3F.wifi.00050-M	Product prices only visible after login. If you do not have an account, please register.

Product description

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Inverter Fronius Symo 5.0-3-M Wlan WEB - Technical Data:

Input Data:

Number of MPP trackers

Maximum input current (I_{dc max}): 16.0/16.0 A

Maximum short-circuit current of the module field: 31/31 A

Range of DC input voltages (U_{dc min} - U_{dc max}): 150 - 1000 V

Starting voltage (U_{dc start}): 200 V

Nominal input voltage (U_{dc,r}): 595 V

Range of MPP voltages (U_{mpp min} - U_{mpp max}): 163 - 800 V

Usable range of MPP voltage: 150 - 800 V

Number of DC connectors: 2+2

Maximum power of the photovoltaic generator (P_{dc max}): 10 kW_{peak}

Output Data:

AC rated power (P_{ac,r}): 5000 W

Maximum output power (P_{ac max}): 4500 VA

AC output current (I_{ac nom}): 7.2 A

Network connection (U_{ac,r}): 3~ NPE 400/230, 3~ NPE 380/220 V

AC voltage range (U_{min} - U_{max}): 150 - 280 V

Frequency (f_r): 50 / 60 Hz

Frequency range (f_{min} - f_{max}): 45 - 65 Hz

Non-linear distortion coefficient <3% @P_{nom} (230/400VAC 50Hz)

Power factor (cos φ_{ac,r}): 0.85 - 1 ind./cap.

General Data:

Dimensions / width: 432.5 mm

Dimensions / height: 642.5 mm

Dimensions / depth: 205.5 mm

Weight: 19.75 kg

Weight with packaging: 23.05 kg

Protection degree IP 65

Protection class: 1

Overvoltage category (DC/AC) 1): 2 / 3

Nighttime power consumption: < 1 W

Inverter construction concept: Transformerless

Cooling: Regulated ventilation

Installation indoors and outdoors

Ambient temperature range: -25°C - +60°C

Permissible air humidity: 0 - 100 %

DC connection technology: Screw terminals 3x DC+ and 3x DC- 2.5-16 mm² (For 16 mm² without cable ends.)

AC connection technology: 5-pole screw terminals AC 2.5-16 mm² (For 16 mm² without cable ends.)

DC insulation measurement: Yes

Behavior in case of overload: Shift of operating point, power limiter

DC disconnect: Yes

DC polarity reversal protection: Yes

Advantages of the Fronius Symo 5.0-3-M Wlan WEB inverter:

SNAPINWERTER mounting system

Integrated data communication

DYNAMIC PEAK MANAGER

SMART GRID READY

SuperFlex Design

Limitation of energy impact

Manufactured in Austria

Fronius products are factory covered by a two-year warranty, which can be extended free of charge to five years by simple registration on the Fronius Solar.web portal. Registering the inverter on Solar.web offers numerous benefits, including:

- Warranty protection for up to five years for registered products.
- Free monitoring of photovoltaic installation performance on the Fronius Solar.web portal.
- Regular information about new features, accessories, compatible batteries, and home automation solutions.