

# FRONIUS SYMO 8.2-3-M

Product code: F.Fronius.3F.wifi.00082-M



Manufacturer	<b>FRONIUS</b>
Inverter type	<b>On-grid</b>
Inverter phases	<b>3</b>
Max. AC power	<b>8000</b>
Output power	<b>8000</b>
Circuit breaker value	<b>25</b>
MPPT	<b>2</b>
Amperage	<b>16</b>
WIFI	<b>Tak</b>
Ethernet	<b>No</b>
Compatible optimizers	<b>Tigo</b>
Warranty	<b>10</b>
CN code number	<b>85044086</b>
Quantity per pallet	<b>12</b>
Country of origin	<b>Austria</b>
Weight	<b>20</b>
Width	<b>43</b>
Height	<b>64</b>
Depth	<b>20</b>

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
<b>FRONIUS SYMO 8.2-3-M</b> F.Fronius.3F.wifi.00082-M	Product prices only visible after login. If you do not have an account, please register.

## Product description

Thanks to various power classes ranging from 3.0 to 8.2 kW, the three-phase inverter Fronius Symo is an excellent solution for use in installations of various sizes. The SuperFlex Design construction ensures that the Fronius Symo device performs exceptionally well on curved or structurally diverse roofs. Easy internet connection via WLAN or Ethernet interfaces, 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 interface, dynamic power management and clear visualization of energy consumption are possible.

Fronius Symo 8.2-3-M Wlan WEB - technical data:

Input data:

Number of MPP trackers: 2  
Maximum input current (I<sub>dc max</sub>): 16.0/16.0 A  
Maximum short-circuit current of module arrays: 31/31 A  
Range of DC input voltages (U<sub>dc min</sub> - U<sub>dc max</sub>): 150 - 1000 V  
Starting voltage (U<sub>dc start</sub>): 200 V  
Rated input voltage (U<sub>dc,r</sub>): 595 V  
Range of MPP voltages (U<sub>mpp min</sub> - U<sub>mpp max</sub>): 267 - 800 V  
Usable range of MPP voltages: 150 - 800 V  
Number of DC connections: 2+2  
Maximum power of the photovoltaic generator (P<sub>dc max</sub>): 16.4 kW<sub>peak</sub>

Output data:

Rated AC power (P<sub>ac,r</sub>): 8200 W  
Maximum output power (P<sub>ac max</sub>): 8200 VA  
Output AC current (I<sub>ac nom</sub>): 11.8 A  
Grid connection (U<sub>ac,r</sub>): 3~ NPE 400/230, 3~ NPE 380/220 V  
AC voltage range (U<sub>min</sub> - U<sub>max</sub>): 150 - 280 V  
Frequency (f<sub>r</sub>): 50 / 60 Hz  
Frequency range (f<sub>min</sub> - f<sub>max</sub>): 45 - 65 Hz  
Non-linear distortion factor <3% @P<sub>nom</sub> (230/400VAC 50Hz)  
Power factor (cos φ<sub>ac,r</sub>): 0.85 - 1 ind./cap.

General data:

Dimensions / width: 432.5 mm  
Dimensions / height: 642.5 mm  
Dimensions / depth: 205.5 mm  
Weight: 21.22 kg  
Weight with packaging: 24.65 kg  
Protection rating IP 65  
Protection class: 1  
Overvoltage category (DC/AC) 1): 2 / 3  
Night energy consumption: < 1 W  
Inverter construction concept: Transformerless  
Cooling: Regulated ventilation  
Installation inside and outside buildings  
Ambient temperature range: -25°C - +60°C  
Permissible air humidity: 0 - 100%  
DC connection technology: Screw terminals 4x DC+ and 4x DC- 2.5-16 mm<sup>2</sup> (For 16 mm<sup>2</sup> without cable ends.)  
AC connection technology: 5-pin screw terminals AC 2.5-16 mm<sup>2</sup> (For 16 mm<sup>2</sup> without cable ends.)  
DC insulation measurement: Yes  
Behavior in case of overload: Shift of operating point, power limiter

DC switch: Yes

DC pole reversal protection: Yes

Advantages of the Fronius Symo 8.2-3-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 come with a two-year factory warranty, which can be extended free of charge to 5 years through simple registration on the Fronius Solar.web portal.

Registering the inverter on Solar.web offers numerous benefits, including:

- Warranty protection for up to 5 years for registered products.
- Free monitoring of photovoltaic system performance on the Fronius Solar.web portal.
- Regular information about new features, accessories, compatible batteries, and home automation solutions.