

Fronius Symo GEN24 8.0 Plus

Product code: F.Fronius.3F.H.wifi.00080-gen24



Manufacturer	FRONIUS
Inverter type	Hybrid
Inverter phases	3
Max. AC power	8000
Output power	8000
Circuit breaker value	25
MPPT	2
Amperage	25
WIFI	Tak
Ethernet	No
Compatible energy storage	Pylontech, BYD
Compatible optimizers	Tigo
Warranty	10
CN code number	85044086
Quantity per pallet	14
Country of origin	Austria
Weight	23.4
Width	53
Height	60
Depth	18

The hybrid inverter Fronius Symo GEN24 8.0 Plus in the three-phase version serves as the ideal heart for individual PV installations. Thanks to the PV Point function, the Fronius GEN24 Plus offers built-in basic emergency power supply and the possibility of full backup power on a larger scale by connecting a battery. After connecting the battery, the hybrid inverter Fronius GEN24 Plus enables achieving energy self-sufficiency in terms of electricity, heating, cooling, and e-mobility. In full backup power mode, the Fronius GEN24 Plus provides sufficient backup power, even for 3-phase appliances such as heat pumps. With multi-flow technology, the hybrid inverter enables parallel energy flow in the system during backup power mode.

Product variants

Index	Price
Fronius Symo GEN24 8.0 Plus F.Fronius.3F.H.wifi.00080-gen24	Product prices only visible after login. If you do not have an account, please register.

Product description

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Key features of the Fronius Symo GEN24 8.0 Plus inverter:

INTEGRATED DATA COMMUNICATION - The inverter offers a comprehensive package of data communication, enabling full integration with Datalogging, WLAN, Ethernet, energy management, and network server. The inverter can be connected to the Internet via a network cable or wirelessly through the WLAN interface, ensuring effective monitoring of the photovoltaic installation. Interfaces such as Modbus TCP, Modbus RTU SunSpec, or Fronius Solar API (JSON) allow easy connection of components from other companies. Additionally, using the Fronius Solar.web online portal, open interfaces are available for additional flexibility.

DYNAMIC PEAK MANAGER - The Dynamic Peak Manager is a modern Maximum Power Point Tracking (MPPT) algorithm that dynamically adjusts in search of the optimal operating point. It is characterized by its ability to find the Global Maximum Power Point (GMPP), even under partial shading.

MULTI FLOW TECHNOLOGY - Multi Flow technology allows the inverter to process different DC and AC energy flows simultaneously. It can deliver energy from modules and batteries simultaneously to the household and transmit energy from modules to batteries and the home network. Additionally, the battery can be charged via both DC and AC circuits (e.g., from existing photovoltaic installations or other energy sources). This enables effective cooperation with the AC network and regulation of energy flows, ensuring high self-consumption of own energy.

SUPERFLEX DESIGN - Fronius SuperFlex Design is an innovative combination of technical features that greatly facilitates the design of photovoltaic installations. Key elements of SuperFlex Design include two MPP trackers, high system voltage, and a wide range of DC input voltages. Each DC input and MPP tracker can handle the full rated power of the inverter, regardless of roof orientation, module shading, or panel diversity. This flexibility allows the Fronius SuperFlex Design inverter to meet the requirements of any project using a single inverter model.

PV POINT - Integrated basic backup power supply function, socket powered in emergency situations, allows the use of essential devices even during power outages.

ACTIVE COOLING - Active cooling technology, using one or more fans, not only eliminates potential overheating areas but also regulates airflow inside the inverter, maintaining a low temperature of the power electronic circuit. This process benefits the durability of the device, optimizes performance, and reduces costs. Active Cooling is a standard technology in all Fronius products.

FULL BACKUP - The Full Backup option enables backup power supply for the entire household, including both single-phase and three-phase devices, in case of a power grid failure.

Technical data of the Fronius Symo GEN24 8.0 Plus inverter:

INPUT DATA

Number of MPP trackers: 2

Photovoltaic input power: 10300 W
Maximum input current (I_{dc max}): 25 A / 12.5 A
Maximum short-circuit current of module field*: 40.0 A / 20.0 A
MPP voltage range (U_{mpp min} - U_{mpp max}): 224-800 V
Useful MPP voltage range: 80-800 V
Number of DC connections: 2+1
Maximum photovoltaic generator power (P_{dc max}): 12 kW_{peak}

OUTPUT DATA

AC rated power (P_{ac,r}): 8000 W
Maximum output power (P_{ac max}): 8000 VA
Maximum power drawn from the grid: 10 000 VA
Maximum AC output current: 16.4 A
Rated alternating current output (380VAC): 12.1 A
Rated alternating current output (400VAC): 11.6 A

GENERAL DATA

Dimensions Length: 595 mm
Dimensions / width: 529 mm
Dimensions (height): 595 mm
Dimensions (depth): 180 mm
Weight: 23.38 kg
Weight with packaging: 28.05 kg
Degree of protection: IP66

Fronius products come with a factory two-year warranty, which can be extended to five years free of charge by 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 the performance of the photovoltaic installation on the Fronius Solar.web portal.
- Regular information about new features, accessories, compatible batteries, and solutions for home automation.