

Fronius Symo GEN24 6.0 Plus

Product code: F.Fronius.3F.H.wifi.00060-gen24



Manufacturer	FRONIUS
Inverter type	Hybrid
Inverter phases	3
Max. AC power	6000
Output power	6000
Circuit breaker value	16
MPPT	2
Amperage	25
WIFI	Tak
Ethernet	No
Compatible energy storage	Pylontech, BYD
Compatible optimizers	Tigo
Warranty	10
CN code number	85044085
Quantity per pallet	14
Country of origin	Austria
Weight	23.4
Width	47
Height	53
Depth	17

Hybrid inverter Fronius Symo GEN24 6.0 Plus in the three-phase version is the perfect 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 Fronius GEN24 Plus hybrid inverter enables achieving energy self-sufficiency in terms of electricity, heating, cooling, and e-mobility. In full backup mode (Full Backup), the Fronius GEN24 Plus provides sufficient backup power, even for 3-phase loads such as heat pumps. Thanks to multi-flow technology, the hybrid inverter enables parallel energy flow in the system during backup power mode.

Product variants

Index	Price
Fronius Symo GEN24 6.0 Plus F.Fronius.3F.H.wifi.00060-gen24	Product prices only visible after login. If you do not have an account, please register.

Product description

Hybrid inverter Fronius Symo GEN24 6.0 Plus in the three-phase version is the perfect 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 Fronius GEN24 Plus hybrid inverter enables achieving energy self-sufficiency in terms of electricity, heating, cooling, and e-mobility. In full backup mode (Full Backup), the Fronius GEN24 Plus provides sufficient backup power, even for 3-phase loads such as heat pumps. Thanks to multi-flow technology, the hybrid inverter enables parallel energy flow in the system during backup power mode.

Key features of the Fronius Symo GEN24 6.0 Plus inverter:

INTEGRATED DATA COMMUNICATION - The inverter offers a comprehensive data communication package, 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, providing efficient monitoring of the photovoltaic installation. Additionally, interfaces such as Modbus TCP, Modbus RTU SunSpec, or Fronius Solar API (JSON) allow easy connection of components from other manufacturers. Furthermore, using the Fronius Solar.web online portal, open interfaces are available for additional flexibility.

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

MULTI FLOW TECHNOLOGY - With Multi Flow technology, the inverter allows simultaneous processing of different DC and AC energy flows. It can deliver power from modules and the battery simultaneously to the household and transmit power from modules to the battery and home network. Additionally, the battery can be charged both by DC and AC circuits (e.g., from existing photovoltaic installations or other energy sources). This enables efficient cooperation with the AC network and regulation of energy flows, ensuring high self-supply from 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 tracker MPP can accept the full rated power of the inverter, regardless of roof orientation, module shading, or the diversity of panels used. With this flexibility, the Fronius SuperFlex Design inverter allows meeting the requirements of any project using a single inverter model.

PV POINT - Integrated basic emergency power supply function, powered socket in emergency situations, allowing 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 air circulation inside the inverter, maintaining a low temperature of the power electronic system. 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 - Full Backup option enables backup power supply for the entire household, both single-phase and three-phase devices, in case of a grid failure.

Technical data of the Fronius Symo GEN24 6.0 Plus inverter:

INPUT DATA

Number of MPP trackers: 2

Photovoltaic input power: 10300 W
Max. input current (I_{dc max}): 25 A / 12.5 A
Max. module field short-circuit current*: 40.0 A / 20.0 A
MPP voltage range (U_{mpp min} - U_{mpp max}): 174-800 V
Usable MPP voltage range: 80-800 V
Number of DC connections: 2+1
Max. photovoltaic generator power (P_{dc max}): 9 kW_{peak}

OUTPUT DATA

AC rated power (P_{ac,r}): 6000 W
Max. output power (P_{ac max}): 6000 VA
Max. power drawn from the grid: 10 000 VA
Max. AC output current: 16.4 A
Rated AC current output (380VAC): 9.1 A
Rated AC current output (400VAC): 8.7 A

GENERAL DATA

Dimensions Length: 595 mm
Dimensions / Width: 529 mm
Dimensions (height): 530 mm
Dimensions (depth): 180 mm
Weight: 23.38 kg
Weight with packaging: 28.05 kg
Degree of protection: IP66

Fronius products come with a standard two-year warranty, which can be extended to 5 years free of charge 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 installation performance on the Fronius Solar.web portal.
 - Regular information about new features, accessories, compatible batteries, and home automation solutions.
-