



/ Perfect Welding / Solar Energy / Perfect Charging



FRONIUS SYMO GEN24 PLUS

The hybrid allrounder with individual backup power



Integrated Data Communication



Dynamic Peak Manager



Multi Flow Technology



SuperFlex Design



Full backup



PV Point basic grid backup

The Fronius Symo GEN24 Plus, with power categories of between 6 and 10 kW, is the ideal hybrid inverter for private households. With many features as standard, the three-phase device covers all customer requirements.

The GEN24 Plus leaves nothing to be desired with numerous features such as energy management functions, WLAN connection as standard, Ethernet connectivity and easy integration of third-party components. Thanks to a selection of emergency power options (PV Point, full backup) in particular, it ensures the highest degree of power supply reliability.

TECHNICAL DATA FRONIUS SYMO GEN24 PLUS (6.0, 8.0, 10.0)

| INPUT DATA | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
|--|------------------------|--|-------------------------|
| Number of MPP trackers | | 2 | |
| Max. input current ($I_{dc \max}$ MPPT1 / MPPT2) | | 25 A / 12.5 A | |
| Max. array short circuit current (MPPT1/MPPT2) | | 37.5 A / 18.75 A | |
| DC input voltage range ($U_{dc \min}$ - $U_{dc \max}$) | | 80 V - 1,000 V | |
| Nominal input voltage ($U_{dc,r}$) | | 610 V | |
| Feed-in start voltage ($U_{dc \text{ start}}$) | | 80 V | |
| Usable MPP voltage range | | 80 V - 800 V | |
| Number of DC connections (MPPT1 / MPPT2) | | 2 / 1 | |
| Max. PV generator output ($P_{dc \max}$) | 9 kW _{peak} | 12 kW _{peak} | 15 kW _{peak} |
| OUTPUT DATA | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
| AC nominal output ($P_{ac,r}$) | 6,000 W | 8,000 W | 10,000 W |
| Max. output power | 6,000 VA | 8,000 VA | 10,000 VA |
| Max. output current ($I_{ac \max}$) | | 16.4 A | |
| Grid connection (voltage range) | | 3~NPE 400 V / 230 V or 3~NPE 380 V / 220 V (+20 % / - 30%) | |
| Frequency (frequency range) | | 50 Hz / 60 Hz (45 Hz - 66 Hz) | |
| Total harmonic distortion | | < 3 % | |
| Power factor ($\cos \phi_{ac,r}$) | | 0.7 - 1 ind. / cap. | |
| Back-up power | | 3~NPE 400 V / 230 V | |
| OUTPUT DATA PV POINT / FULL BACKUP | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
| Nom. output power PV Point / full backup | 3,000 VA / 6,000 VA | 3,000 VA / 8,000 VA | 3,000 VA / 10,000 VA |
| Nominal phase power full backup | | 3.68 kVA | |
| Grid connection (voltage range) PV Point | | 1 ~ NPE 220 V / 230 V | |
| Grid connection (voltage range) full backup | | 3~NPE 400V/230V oder 3~NPE 380V/220V | |
| Switchover time | | < 90 seconds | |
| BATTERY CONNECTION | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
| Number of DC connections | | 1 | |
| Max. input current ($I_{dc \max}$) | | 22 A | |
| DC input voltage range ($U_{dc \min}$ - $U_{dc \max}$) | | 160 V - 500 V | |
| Max. input / output power ¹⁾ | 6,250 W | 8,330 W | 10,420 W |
| Max. AC charging power | 6,000 W | 8,000 W | 10,000 W |



TECHNICAL DATA FRONIUS SYMO GEN24 PLUS (6.0, 8.0,10.0)

| GENERAL DATA | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
|--|---|------------------------|-------------------------|
| Dimensions (height x width x depth) | 594 x 527 x 180 mm | | |
| Weight (inverter / with packaging) | 24 / 28,5 kg | | |
| Degree of protection | IP 66 | | |
| Protection class | 1 | | |
| Nighttime power loss | < 10 W | | |
| Overvoltage category (DC/AC) ²⁾ | 2 / 3 | | |
| Inverter design | Transformerless | | |
| Cooling | Regulated air cooling | | |
| Installation | Indoor and outdoor installation | | |
| Ambient temperature range | -25 - +60 °C | | |
| Permitted humidity | 0 - 100 % | | |
| Max. altitude | 3,000 m / 4,000 m (unrestricted / restricted voltage range) | | |
| DC PV connection technology | 3x DC+ and 3x DC- push-in spring terminals 1.5 - 10 mm ² | | |
| DC battery connection technology | 1x BATT+ and 1x BATT- push-in spring terminals 1.5 - 10 mm ² | | |
| AC connection technology | 5 pole AC push-in spring terminals 1.5 - 10 mm ² 5x PE-screw terminals 2.5 - 16 mm ² | | |
| Certificates and compliance with standards | IEC 62109, IEC 62116, IEC 61727, IEC 62909, VDE 0126, VDE AR-N4105, AS/NZS 4777.2, EN 50549, CEI 0-21, G 98, R25 ⁴⁾ | | |
| Back-up power functions | PV Point or full backup | | |
| Compatible batteries | BYD Battery-Box Premium HVS/HVM ³⁾ | | |

| EFFICIENCY | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
|-------------------------|------------------------|------------------------|-------------------------|
| Max. efficiency | | 98.2 % | |
| Europ. efficiency (ηEU) | 97.7 % | 97.8 % | 97.9 % |
| MPP-tracking efficiency | | > 99.9 % | |

| PROTECTIVE DEVICES | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
|-----------------------------|---|------------------------|-------------------------|
| DC insulation measurement | Yes | | |
| Overload behaviour | Operating point shift. Power limitation | | |
| DC disconnect | Yes | | |
| Reverse polarity protection | Yes | | |

| INTERFACES | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
|-----------------------------------|--|------------------------|-------------------------|
| WLAN / 2x Ethernet LAN | Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON) | | |
| 6x digital in/out + 6x digital in | Interface to ripple control receiver, energy management | | |
| USB 2.0 (A-socket) | 1 A supply | | |
| Emergency stop (WSD) | Yes | | |
| Datalogger and webservice | Included | | |
| 2x RS485 | Modbus RTU SunSpec (third-party supplier) / Fronius Smart Meter, battery, Fronius Ohmpilot | | |

¹⁾ Depending on the connected battery ²⁾ According to IEC 62109-1 ³⁾ Except HVS 12.8 and HVM 8.3

⁴⁾ These are planned certificates. For the current certificates, please see www.fronius.com

For further information on the availability of this inverter in your country please see www.fronius.com.

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THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,760 employees worldwide and 1,253 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

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