



FRONIUS SYMO GEN24 PLUS

The hybrid all-rounder with individual back-up power



PRELIMINARY DATA



Integrated Data Communication



Dynamic Peak Manager



Multi Flow Technology



SuperFlex Design



Full-backup



PV Point basic grid back-up

In power categories from 6.0 to 10.0 kW, the Fronius Symo GEN24 Plus is the ideal hybrid inverter for private households. With various features included as standard it fulfills every customer's needs.

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 ($U_{dc,r}$) | | 595 V | |
| Feed-in start voltage ($U_{dc \text{ start}}$) | | 150 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 | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
|---------------------------------------|---------------------|-----------------------|----------------------|
| Nom. output power | | 3,000 VA | |
| Nom. output current ($I_{ac \max}$) | | 13 A (25 A) | |
| Grid connection (voltage range) | | 1 ~ NPE 220 V / 230 V | |
| Frequency (frequency range) | | 53 Hz / 63 Hz | |
| Switchover time | | > 30 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 - 700 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 166 mm | | |
| Weight (inverter / with packaging) | 25 / 27 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 | VDE V 0126-1-1, VDE-AR-N 4105, ÖVE/ÖNORM E 8001-4-712 | | |
| Back-up power functions | PV Point, back-up power ¹⁾ | | |
| Compatible batteries | BYD Battery-Box Premium HVS/HVM | | |

| EFFICIENCY | SYMO GEN24 6.0 PLUS | SYMO GEN24 8.0 PLUS | SYMO GEN24 10.0 PLUS |
|--------------------------------------|------------------------|------------------------|-------------------------|
| Max. efficiency | 98.2 % | 98.1 % | 98.2 % |
| Europ. efficiency (η _{EU}) | 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 webserver | Included | | |
| 2x RS485 | Modbus RTU SunSpec or meter connection, SunSpec, Smart Meter | | |

¹⁾ Depending on the connected battery ²⁾ According to IEC 62109-1
For further information on the availability of this inverter in your country please see www.fronius.com.

/ Perfect Welding / Solar Energy / Perfect Charging

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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