



**Fronius**  
**SYMO GEN24 PLUS 3P - HYBRID**  
**6-8-10 KW**

The Fronius Symo GEN24 Plus, with power categories of between 3 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 backup power options (PV Point, full backup 1) in particular, it ensures the highest degree of power supply reliability.



Integrated Data Communication



Dynamic Peak manage



Multi Flow Technology



SuperFlex Design



Full Backup



PV Point Basic Grid Backup

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 <sub>dc max</sub> 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 <sub>dc min</sub> - U <sub>dc max</sub> )	80 V - 1,000 V		
Nominal input voltage (U <sub>dc,r</sub> )	610 V		
Feed-in start voltage (U <sub>dc start</sub> )	80 V		
Usable MPP voltage range	80 V - 800 V		
Number of DC connections (MPPT1 / MPPT2)	2 / 1		
Max. PV generator output (P <sub>dc max</sub> )	9 kW peak	12 kW <sub>peak</sub>	15 kW peak
OUTPUT DATA	SYMO GEN24 6.0 PLUS	SYMO GEN24 8.0 PLUS	SYMO GEN24 10.0 PLUS
AC nominal output (P <sub>ac,r</sub> )	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 <sub>ac max</sub> )	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	< 3.5 %		
Power factor (cos φ <sub>ac,r</sub> )	0.7 - 1 ind. / cap.		
Backup power	3~NPE 400 V / 230 V		
OUTPUT DATA PV POINT / FULL BACKUP <sup>1</sup>	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 power per phase 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 or 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 <sub>dc max</sub> )	22 A		
DC input voltage range (U <sub>dc min</sub> - U <sub>dc max</sub> )	160 V - 500 V		
Max. input / output power <sup>2)</sup>	6,220 W	8,260 W	10,300 W
Max. AC charging power	6,000 W	8,000 W	10,000 W
GENERAL DATA	SYMO GEN24 6.0 PLUS	SYMO GEN24 8.0 PLUS	SYMO GEN24 10.0 PLUS
Dimensions (height x width x depth)	595 x 529 x 180 mm		
Weight (inverter / with packaging)	23,4 / 28,5 kg		
Degree of protection	IP 66		
Protection class	1		
Nighttime power loss	< 10 W		
Overvoltage category (DC/AC)	2 / 3		
Inverter design	Transformerless		
Cooling	Regulated air cooling		
Installation	Indoor and outdoor installation		
Ambient temperature range	-25 - +60 °C		
Permitted humidity	0 - 100 %		
Noise Emission	< 47 dB (A)		
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 2.5 - 10 mm <sup>2</sup>		
DC battery connection technology	1x BATT+ and 1x BATT- push-in spring terminals 2.5 - 10 mm <sup>2</sup> 5 pole AC push-in spring terminals 1.5 - 10 mm <sup>2</sup> 3 pole backup power push-in spring terminals 1.5mm <sup>2</sup> - 10mm <sup>2</sup> 5x PE-screw terminals 2.5 - 16 mm <sup>2</sup>		
AC connection technology	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 <sup>4)</sup>		
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 <sup>4)</sup>		
Back-up power functions	PV Point or Full Backup		
Compatible batteries	BYD Battery-Box Premium HVS/HVM <sup>5)</sup>		
EFFICIENCY	SYMO GEN24 6.0 PLUS	SYMO GEN24 8.0 PLUS	SYMO GEN24 10.0 PLUS
Max. efficiency	98.2 %		
Europ. efficiency (η <sub>EU</sub> )	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 (third-party supplier) / Fronius Smart Meter, battery, Fronius Ohmpilot		

