



Product advantages



01 Backup power for every situation

A reliable energy supply: the Fronius GEN24 offers just that with an integrated basic backup power function, the PV Point. With the Fronius GEN24 Plus, you can choose between the PV Point and the Full Backup option, which provides backup power for the entire home.

02 Built-in freedom

The Fronius GEN24 and Fronius GEN24 Plus have open interfaces. This makes it easy to integrate components from Fronius or third-party suppliers for a tailor-made photovoltaic system.

03 Versatility as standard

More functions. More control. More power. Thanks to their energy management functions, the Fronius GEN24 and Fronius GEN24 Plus continuously save time and money. What's more, the integrated active cooling extends the service life of the inverter, protecting your investment for many years to come.

04 Maximum independence

By combining the Fronius GEN24 Plus with a battery, you can get even more out of your photovoltaic system, even at night. Use more of your own electricity and become more independent of electricity providers and prices.

Technical data

			Symo	GEN24 SC / GEN24 P	lus SC	
				12.0		
	Number of MPP trackers		2			
	DC input voltage range (U _{dc min} - U _{dc max})	V	80 - 1,000			
	Rated input voltage (U _{dc,r})	V	610			
	Feed-in start-up input voltage (U _{dc start})	٧	80			
r E	Usable MPP voltage range	٧	80 - 800			
Input data	MPP voltage range (at rated power) (U _{mpp min} - U _{mpp max})	V	295 - 800			
ldu			MPPT1		MPPT2	
Ħ	Max. usable input current (I _{dc max})	Α	28		14	
	Max. array short circuit current (I _{sc pv}) ¹	А	40		20	
	Number of DC connections		2		1	
			MPPT1	MPPT2	Total	
	Max. usable DC power	W	12,360	8,600	12,360	
	Max. PV generator output	Wpeak	14,000	9,000	18,000	
	AC rated power (P _{ac,r})	W	12,000			
	Apparent power	VA	12,000			
Ö	Max. output power	VA	12,000			
Output data			380 Vac		400 Vac	
¥	Rated AC output current	А	18.2		17.4	
tpi	Grid connection (U _{ac,r})	V	3~ NPE 400/230 or 3~ NPE 380/220 (+20%/-30%)			
no	Frequency (frequency range f _{min} - f _{max})	Hz	50/60 (45 - 65)			
	Total harmonic distortion	%	< 3.5			
	Power factor (cos φ _{ac,r})		0.7 - 1 ind. / cap.			
itput ata Point	Rated output power PV Point	VA	3,000			
₹ 5	Grid connection PV Point	V	1~ NPE 220/230			
0 4	Switching time	sec.	~15			

Full Backup power and battery function only available with GEN24 Plus			Symo GEN24 Plus SC
			12.0
data kup²	Rated output power Full Backup	VA	12,000
put Bac	Grid connection Full Backup	V	3~ NPE 400/230 or 3~ NPE 380/220
Out	Switching time	sec.	~10
_			
- E	Number of DC inputs		1
ij	Max. input current (I _{dc max})	Α	22
connection	DC input voltage range (U _{dc min} - U _{dc max})	V	160 - 700
ဝိ	DC battery connection technology		1x BATT+ and 1x BATT- push-in spring terminals 2.5 - 10 mm²
ery	Max. DC input/output power ³	W	11,682
attery	Max. charging power for AC coupling ³	W	11,682
Ba	Compatible batteries 4		Fronius Reserva & BYD Battery-Box Premium HVS/HVM

¹ $I_{SC\ PV} = I_{SC\ max} >= I_{SC\ (STC)} \times 1,25$ according to e.g. IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021. ² Additional external components for grid switchover are required for the Full Backup. See the Operating Instructions for further details.

Depending on connected battery
 Compatibility with the Fronius GEN24 Plus varies depending on the battery storage type and capacity class, country-specific certification and availability. More information: www.fronius.com/battery-overview

Technical data

			Symo GEN24 SC / GEN24 Plus SC		
			12.0		
	Dimensions (height × width × depth)	mm	595 × 529 × 180		
e,	Weight (inverter/with packaging)	kg	22,8 / 28,0		
	Protection class		IP 66		
	Safety class		1		
	Night consumption	W	<10		
	Overvoltage category (DC/AC) ⁵		2/3		
	Cooling		Active Cooling Technology		
	Installation		Indoor and outdoor installation		
General data	Ambient temperature range	°C	-25 to +60		
al	Permissible humidity	%	0 - 100		
Jer	Noise emissions	dB (A)	< 47		
e Se	Max. altitude above sea level	m	3,000/4,000 (unrestricted/restricted voltage range)		
Ĭ	DC connection technology PV		$3 \times DC+$ and $3 \times DC-$ push-in spring terminals $2.5-10~\text{mm}^2$		
	AC connection technology		5-pin AC push-in spring terminals 1.5 - 10 mm² 3-pin backup power push-in spring terminals 1.5 - 10 mm² 5 × PPE screw terminals 2.5 - 16 mm²		
	Certificates and compliance with standards 6		IEC 62109, IEC 62116, IEC 61727, IEC 62909, VDE AR-N4105, AS/NZS 4777.2, EN 50549, CEI 0-21, R25		
	Backup power functions ⁷		PV Point or Full Backup		
	Life cycle analysis		In accordance with ÖNORM EN ISO 14040 and 14044 (checked by employees from Fraunhofer IZM)		
ncy	Max. efficiency	%	98.2		
cier			97.9		
icie	Euro. efficiency (ηEU)	%	97.9		
Efficiency	Euro. efficiency (ηEU) MPP adaptation efficiency	%	97.9 > 99.9		
Efficie					
	MPP adaptation efficiency		> 99.9		
Protection Efficie devices	MPP adaptation efficiency DC isolation measurement		> 99.9 Integrated		
	MPP adaptation efficiency DC isolation measurement DC disconnector Reverse polarity protection		> 99.9 Integrated Integrated Integrated		
Protection devices	MPP adaptation efficiency DC isolation measurement DC disconnector Reverse polarity protection WLAN/2 × Ethernet LAN		> 99.9 Integrated Integrated		
Protection devices	MPP adaptation efficiency DC isolation measurement DC disconnector Reverse polarity protection		> 99.9 Integrated Integrated Integrated		
Protection devices	MPP adaptation efficiency DC isolation measurement DC disconnector Reverse polarity protection WLAN/2 × Ethernet LAN 6 digital inputs		> 99.9 Integrated Integrated Integrated Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON)		
	MPP adaptation efficiency DC isolation measurement DC disconnector Reverse polarity protection WLAN/2 × Ethernet LAN 6 digital inputs 6 digital inputs/outputs		> 99.9 Integrated Integrated Integrated Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON) Connection to ripple control receiver, energy management		

⁵ In line with IEC 62109-1. Option to retrofit surge protection device DC SPD type 1+2 for 2 MPP trackers available under the following item number: 4,240,313,CK

6 You can find the current certificates under www.fronius.com/symo-gen24-plus-cert

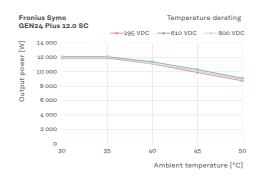
⁷ Full Backup power is only available with GEN24 Plus.

Impressive power data

The Fronius GEN24 and GEN24 Plus impress with premium efficiency and maximum power at high temperatures.

Efficiency

Power derating







Fronius now offers all the components for 24 hours of sun - a complete PV system from a single source. Electricity, heating, cooling, e-mobility — everything is possible with GEN24 Plus, even at night. The battery-enabled inverter is perfectly matched to the Fronius storage solution, Reserva, and makes you even more independent.

The Fronius storage solution



Make yourself independent and utilise solar energy around the clock. The Fronius Reserva is a high-voltage battery with DC coupling that guarantees particularly effective and efficient energy transfer. With capacities from 6.3 to 15.8 kWh, it adapts flexibly to your needs.



Backup power for every eventuality

With the Fronius Backup Controller, you can switch to full backup power operation automatically. The cost-effective switching component can be installed in the control cabinet to save space and eliminate the need for additional hardware such as switch boxes.



Charge electric cars intelligently and flexibly

With the Fronius Wattpilot, you can charge your electric car wherever you are — at home or on the move. The smart wallbox adapts to your needs and offers two versions: Home for fixed installation and Go as a portable solution. Both allow sustainable charging with solar energy or green electricity from the grid. Whether you have a PV system or not, the Fronius Wattpilot helps you charge cost-effectively and in an environmentally friendly way.

For further information, please visit: www.fronius.com.au/gen24

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