



FRONIUS PRIMO 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

The Fronius Primo GEN24 Plus in power categories from 3.0 to 6.0 kW is the ideal hybrid inverter for private households. With various features included as standard it fulfills every customer's needs.

TECHNICAL DATA FRONIUS PRIMO GEN24 PLUS (3.0, 3.6, 4.0, 4.6, 5.0, 6.0)

INPUT DATA	PRIMO GEN24 3.0 PLUS	PRIMO GEN24 3.6 PLUS	PRIMO GEN24 4.0 PLUS	PRIMO GEN24 4.6 PLUS	PRIMO GEN24 5.0 PLUS	PRIMO GEN24 6.0 PLUS
Number of MPP trackers	2					
Max. input current ($I_{dc \max}$ MPPT1 / MPPT2)	22 A / 12 A					
Max. array short circuit current (MPPT1/MPPT2)	33 A / 18 A					
DC input voltage range ($U_{dc \min}$ - $U_{dc \max}$)	65 V - 600 V					
Nominal input voltage ($U_{dc,r}$)	400 V					
Feed-in start voltage ($U_{dc \text{ start}}$)	80 V					
Usable MPP voltage range	65 V - 530 V					
Number of DC connections (MPPT1 / MPPT2)	2 / 2					
Max. PV generator output ($P_{dc \max}$)	4.5 kW _{peak}	5.5 kW _{peak}	6.0 kW _{peak}	6.9 kW _{peak}	7.5 kW _{peak}	9.0 kW _{peak}

OUTPUT DATA	PRIMO GEN24 3.0 PLUS	PRIMO GEN24 3.6 PLUS	PRIMO GEN24 4.0 PLUS	PRIMO GEN24 4.6 PLUS	PRIMO GEN24 5.0 PLUS	PRIMO GEN24 6.0 PLUS
AC nominal output ($P_{ac,r}$)	3,000 W	3,680 W	4,000 W	4,600 W	5,000 W	6,000 W
Max. output power	3,000 VA	3,680 VA	4,000 VA	4,600 VA	5,000 VA	6,000 VA
Max. output current ($I_{ac \max}$)	19.40 A	23.70 A	25.80 A	27.50 A	27.50 A	27.50 A
Grid connection (voltage range)	1~NPE 220 V / 230 V (+ 20 % / - 30 %)					
Frequency (frequency range)	50 Hz / 60 Hz (45 Hz - 65 Hz)					
Total harmonic distortion	< 3.5 %					
Power factor ($\cos \phi_{ac,r}$)	0.8 - 1 ind. / cap.					
Back-up power	1~NPE 220 V / 230 V					

OUTPUT DATA PV POINT	PRIMO GEN24 3.0 PLUS	PRIMO GEN24 3.6 PLUS	PRIMO GEN24 4.0 PLUS	PRIMO GEN24 4.6 PLUS	PRIMO GEN24 5.0 PLUS	PRIMO GEN24 6.0 PLUS
Nom. output power	3,000 VA					
Nom. output current ($I_{ac \max}$)	13 A (16 A)					
Grid connection (voltage range)	1 ~ NPE 220 V / 230 V					
Frequency (frequency range)	50 Hz / 60 Hz					
Switchover time	> 30 seconds					

BATTERY CONNECTION	PRIMO GEN24 3.0 PLUS	PRIMO GEN24 3.6 PLUS	PRIMO GEN24 4.0 PLUS	PRIMO GEN24 4.6 PLUS	PRIMO GEN24 5.0 PLUS	PRIMO GEN24 6.0 PLUS
Number of DC connections	1					
Max. input current ($I_{dc \max}$)	22 A					
DC input voltage range ($U_{dc \min}$ - $U_{dc \max}$)	150 V - 455 V					
Max. input / output power ¹⁾	3170 W	3890 W	4230 W	4860 W	5290 W	6340 W
Max. AC charging power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W

TECHNICAL DATA FRONIUS PRIMO GEN24 PLUS (3.0, 3.6, 4.0, 4.6, 5.0, 6.0)

GENERAL DATA	PRIMO GEN24 3.0 PLUS	PRIMO GEN24 3.6 PLUS	PRIMO GEN24 4.0 PLUS	PRIMO GEN24 4.6 PLUS	PRIMO GEN24 5.0 PLUS	PRIMO GEN24 6.0 PLUS
Dimensions (height x width x depth)	528 x 474 x 164 mm					
Weight (inverter / with packaging)	16.6 / 19.2 kg					
Degree of protection	IP 66					
Protection class	1					
Overvoltage category (DC/AC) ²⁾	2 / 3					
Inverter design	Transformerless					
Cooling	Regulated air cooling					
Installation	Indoor and outdoor installation					
Ambient temperature range	-40 - +60 °C					
Permitted humidity	0 - 100 %					
Max. altitude	4,000 m					
DC PV connection technology	4x DC+ and 4x DC- push-in spring terminals 2.5 - 10 mm ²					
DC battery connection technology	1x BATT+ and 1x BATT- push-in spring terminals 2.5 - 10 mm ²					
AC connection technology	3 pole AC push-in spring terminals 2.5 - 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	PRIMO GEN24 3.0 PLUS	PRIMO GEN24 3.6 PLUS	PRIMO GEN24 4.0 PLUS	PRIMO GEN24 4.6 PLUS	PRIMO GEN24 5.0 PLUS	PRIMO GEN24 6.0 PLUS
Max. efficiency	97.6 %					
Europ. efficiency (η _{EU})	96.8 %	97.0 %	97.1 %	97.2 %	97.2 %	97.1 %
MPP-tracking efficiency	> 99.9 %					

PROTECTIVE DEVICES	PRIMO GEN24 3.0 PLUS	PRIMO GEN24 3.6 PLUS	PRIMO GEN24 4.0 PLUS	PRIMO GEN24 4.6 PLUS	PRIMO GEN24 5.0 PLUS	PRIMO GEN24 6.0 PLUS
DC insulation measurement	Yes					
Overload behaviour	Operating point shift. Power limitation					
DC disconnecter	Yes					
Reverse polarity protection	Yes					

INTERFACES	PRIMO GEN24 3.0 PLUS	PRIMO GEN24 3.6 PLUS	PRIMO GEN24 4.0 PLUS	PRIMO GEN24 4.6 PLUS	PRIMO GEN24 5.0 PLUS	PRIMO GEN24 6.0 PLUS
WLAN / 2x Ethernet LAN	Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (USON)					
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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