



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



Back-up power



PV Point

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 ($I_{ac \max}$) | 20.00 A | 24.53 A | 26.67 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⁾ | 3,170 W | 3,890 W | 4,230 W | 4,860 W | 5,290 W | 6,340 W |
| Max. AC charging power | 3,000 W | 3,680 W | 4,000 W | 4,600 W | 5,000 W | 6,000 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 HV, LG CHEM RESU7H / RESU10H ³⁾ | | | | | |

| 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 | 97.4 % | | | | | |
| Europ. efficiency (η _{EU}) | 97.0 % | | | | | |
| 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 disconnect | 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 (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 ³⁾ Compatible soon
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 4,550 employees worldwide and 1,241 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

v09 May 2018 EN

Fronius India Private Limited
GAT no 312, Nanekarwadi
Chakan, Taluka - Khed District
Pune 410501
India
pv-sales-india@fronius.com
www.fronius.in

Fronius Australia Pty Ltd.
90-92 Lambeck Drive
Tullamarine VIC 3043
Australia
pv-sales-australia@fronius.com
www.fronius.com.au

Fronius UK Limited
Maidstone Road, Kingston
Milton Keynes, MK10 0BD
United Kingdom
pv-sales-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
Froniusplatz 1
4600 Wels
Austria
pv-sales@fronius.com
www.fronius.com