



Designed to empower.

Product advantages

- 01 Maximum flexibility
- 02 Backup power for every situation
- 03 Built-in freedom
- 04 Easy to install
- 05 Support & tools

Sustainable, reliable, future-proof: With our Fronius GEN24 inverter as the core of a PV system, you can produce your own energy flexibly and cheaply. The Fronius GEN24 Plus hybrid inverter even enables the connection of a battery storage system so that you can use the solar energy you produce for electricity, heating, cooling and e-mobility. Full solar power for your personal energy revolution with the **Fronius GEN24** and **Fronius GEN24 Plus**. **Designed to empower.**

The core of the PV system

01 Maximum flexibility

With the Fronius GEN24 or Fronius GEN24 Plus as the core of your PV system, you will not only be starting your own energy revolution, you will also gain access to all the possibilities and advantages of solar energy. With "Fronius UP", your PV system becomes even more flexible. A software update turns the Fronius GEN24 into our Fronius GEN24 Plus hybrid inverter.

02 Backup power for every situation

Reliable energy supply: The Fronius GEN24 offers with "PV Point" an integrated basic backup power function. With the Fronius GEN24 Plus, you can choose "PV Point" or, with "Full Backup"*, a backup power supply for the entire household.

03 Built-in freedom

The Fronius GEN24 and Fronius GEN24 Plus have open interfaces. This means third-party components can be easily integrated in the system – for a customised PV system.

04 Easy to install

Saves time and money: Quick and reliable installation with 180° quick release screws, push-in tension clamp terminals and a well thought-out wall mounting system.

05 Support & tools

Endless support: Efficient Fronius solutions are available free of charge to help with planning, installation and system monitoring. This increases customer satisfaction and minimises maintenance expense.

Fronius GEN24 is available in two versions:

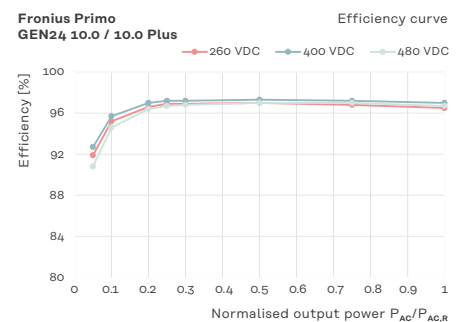
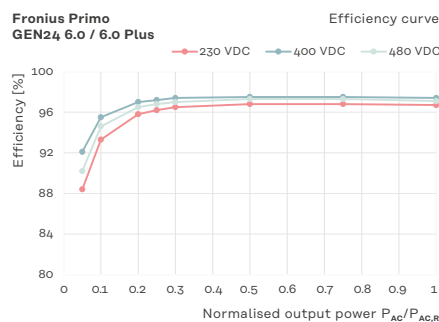
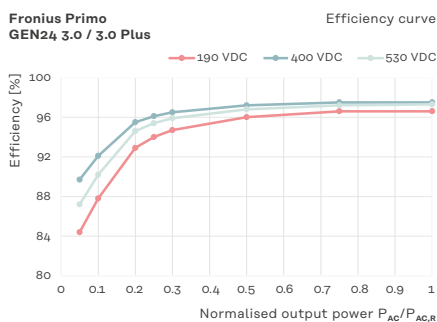
- Inverter: **Fronius GEN24**
- Hybrid inverter: **Fronius GEN24 Plus**



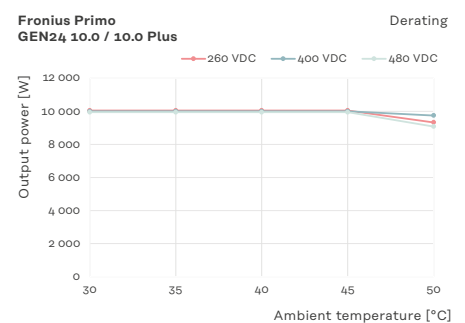
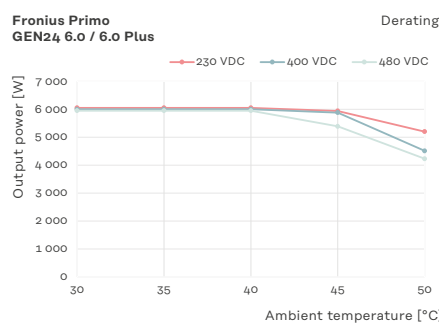
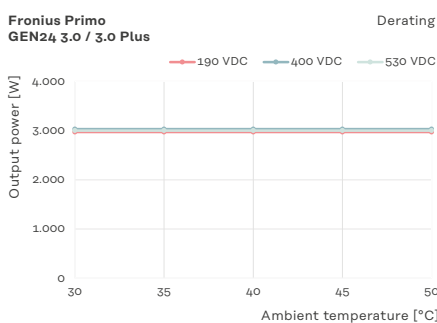
Impressive performance data

The Fronius GEN24 and Fronius GEN24 Plus stand out thanks to maximum efficiency and maximum output at high temperatures.

Efficiency



Power derating



* Available on the Fronius Primo GEN24 Plus

Technical data

3.0/3.6/4.0 kW

| | | | Primo GEN24/GEN24 Plus | | | | | | | | |
|------------|--|-------------------|------------------------|-------|-------|-----------|-------|-------|-----------|-------|-------|
| | | | 3.0 | | | 3.6 | | | 4.0 | | |
| Input data | Number of MPP trackers | | 2 | | | 2 | | | 2 | | |
| | DC input voltage range (V _{DC min} - V _{DC max}) | V | 65 - 600 | | | 65 - 600 | | | 65 - 600 | | |
| | Nominal input voltage (V _{DC,r}) | V | 400 | | | 400 | | | 400 | | |
| | Feed-in start voltage (V _{DC start}) | V | 80 | | | 80 | | | 80 | | |
| | Usable MPP voltage range | V | 65 - 530 | | | 65 - 530 | | | 65 - 530 | | |
| | MPP voltage range (at rated power) | V | 190 - 530 | | | 200 - 530 | | | 210 - 530 | | |
| | | | MPPT1 | MPPT2 | Total | MPPT1 | MPPT2 | Total | MPPT1 | MPPT2 | Total |
| | Max. usable input current (I _{DC max}) | A | 22 | 12 | 3,110 | 22 | 12 | 3,810 | 22 | 12 | 4,140 |
| | Max. module array short circuit current (I _{sc pv}) ¹ | A | 36 | 19 | 4,500 | 36 | 19 | 5,200 | 36 | 19 | 6,000 |
| | Number of DC connections | | 2 | | 2 | 2 | | 2 | 2 | | 2 |
| | Max. usable DC output | W | 3,110 | 3,110 | 3,110 | 3,810 | 3,810 | 3,810 | 4,140 | 4,140 | 4,140 |
| | Max. PV generator output | W _{peak} | 3,750 | 3,110 | 4,500 | 4,600 | 3,810 | 5,520 | 5,000 | 4,140 | 6,000 |

| | | | | | | | | | | | |
|-------------|--|----|----------------------------|----------|-------|----------|----------|-------|----------|----------|-------|
| Output data | AC rated power (P _{AC,r}) | W | 3,000 | | | 3,680 | | | 4,000 | | |
| | Apparent power | VA | 3,000 | | | 3,680 | | | 4,000 | | |
| | Max. output power | VA | 3,000 | | | 3,680 | | | 4,000 | | |
| | | | 220 V AC | 230 V AC | Total | 220 V AC | 230 V AC | Total | 220 V AC | 230 V AC | Total |
| | Nominal AC output current | A | 13.6 | 13 | 3,110 | 16.7 | 16 | 3,810 | 18.2 | 17.4 | 4,140 |
| | Grid connection (V _{AC,r}) | V | 1~ NPE 220/230 (+20%/-30%) | | | | | | | | |
| | Frequency (frequency range f _{min} - f _{max}) | Hz | 50/60 (45 - 65) | | | | | | | | |
| | Total harmonic distortion | % | < 2 | | | < 2 | | | < 2 | | |
| | Power factor (cos φ _{ac,r}) | | 0.8 - 1 ind. / cap. | | | | | | | | |

| | | | | | | | | | | | |
|----------------------|-------------------------------|------|----------------|--|--|-------|--|--|-------|--|--|
| Output data PV Point | Nominal output power PV Point | VA | 3,000 | | | 3,000 | | | 3,000 | | |
| | PV Point grid connection | V | 1~ NPE 220/230 | | | | | | | | |
| | Switchover time | sec. | < 23 | | | < 23 | | | < 23 | | |

 Full Backup power and battery function only available with GEN24 Plus

| | | | Primo GEN24 Plus | | | | | | | | |
|--------------------------------------|----------------------------------|------|------------------|--|--|-------|--|--|-------|--|--|
| | | | 3.0 | | | 3.6 | | | 4.0 | | |
| Output data Full Backup ² | Nominal Full Backup output power | VA | 3,000 | | | 3,600 | | | 4,000 | | |
| | Full Backup grid connection | V | 1~ NPE 220/230 | | | | | | | | |
| | Switchover time | sec. | < 35 | | | < 35 | | | < 35 | | |

| | | | | | | | | | | | |
|-----------------------------------|--|--|--|--|--|-----------|--|--|-----------|--|--|
| Battery connection | Number of DC inputs | | 1 | | | 1 | | | 1 | | |
| | Max. input current (I _{DC max}) | A | 22 | | | 22 | | | 22 | | |
| | DC input voltage range (U _{DC min} - U _{DC max}) ³ | V | 150 - 455 | | | 150 - 455 | | | 150 - 455 | | |
| | DC battery connection technology | | 1× BATT+ and 1× BATT- push-in tension clamp terminals 2.5 - 10 mm ² | | | | | | | | |
| | Max. DC input/output power ⁴ | W | 3,110 | | | 3,810 | | | 4,140 | | |
| | Max. charging power with AC coupling ⁴ | W | 3,000 | | | 3,680 | | | 4,000 | | |
| Compatible batteries ⁵ | | BYD Battery-Box Premium HVS/HVM ⁶ | | | | | | | | | |

¹ I_{sc pv} = I_{sc max} ≥ I_{sc (STC)} × 1.25 according to e.g. IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021.

² The Full Backup option is available for the Primo GEN24 3.0–10.0 Plus. Additional external components for grid switchover are required for the Full Backup. See the Operating Instructions for further details.

³ AC power derating of the inverter occurs with a DC battery input voltage of 419.7 V and higher

⁴ Depending on the connected battery

⁵ Depending on country-specific certification and availability

⁶ Excluding BYD Battery-Box Premium HVS 10.2, HVS 12.8, HVM 8.3, HVM 22.1

| | | | Primo GEN24/GEN24 Plus | | |
|-------------------------------------|---|---|--|------------|------------|
| | | | 3.0 | 3.6 | 4.0 |
| General data | Dimensions (height × width × depth) | mm | 530 × 474 × 165 | | |
| | Weight (inverter/with packaging) | kg | 15.4/19 | 15.4/19 | 15.4/19 |
| | Degree of protection | | IP 66 | IP 66 | IP 66 |
| | Safety class | | 1 | 1 | 1 |
| | Night-time consumption | W | <10 | <10 | <10 |
| | Overvoltage category (DC/AC) ⁷ | | 2/3 | 2/3 | 2/3 |
| | Inverter concept | | Transformerless | | |
| | Cooling | | Active Cooling Technology | | |
| | Installation | | Indoor and outdoor installation | | |
| | Ambient temperature range | °C | -40 to +60 | -40 to +60 | -40 to +60 |
| | Permissible humidity | % | 0 - 100 | 0 - 100 | 0 - 100 |
| | Noise emissions | dB (A) | < 42 | < 42 | < 42 |
| | Max. altitude | m | 4,000 | 4,000 | 4,000 |
| | DC PV connection technology | | 4 × DC+ and 4 × DC- push-in tension clamp terminals 2,5 - 10 mm ² | | |
| | AC connection technology | | 3-pin AC push-in tension clamp terminals 2.5 - 10 mm ² 3-pin backup power push-in tension clamp terminals 1.5 - 10 mm ² 2 × PE screw terminals 2.5 - 16 mm ² and 3 × 2.5 - 10 mm ² | | |
| | Certificates and compliance with standards ⁸ | | IEC 62109, IEC 62909, AS/NZS 4777.2, CEI 0-21, ABNT BNR 16149 und 16150, IEC 62116, IEC 61727, G98/G99, R25 | | |
| Backup power functions ⁹ | | PV Point and Full Backup | | | |
| Producing country | | Austria | | | |
| Life Cycle Assessment | | According to ÖNORM EN ISO 14040 and 14044 (verified by employees of Fraunhofer IZM) | | | |
| Efficiency | Maximum efficiency | % | 97.6 | 97.6 | 97.6 |
| | European efficiency (ηEU) | % | 96.8 | 97.0 | 97.1 |
| | MPP adjustment efficiency | % | > 99.9 | > 99.9 | > 99.9 |
| Protective devices | DC isolation measurement | | Integrated | | |
| | Overload performance | | Operating point adjustment, power limitation | | |
| | DC disconnecter | | Integrated | | |
| | Reverse polarity protection | | Integrated | | |
| Interfaces | Wi-Fi / 2 × Ethernet LAN | | Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON) | | |
| | 6 digital inputs 6 digital inputs/outputs | | Interface to ripple control receiver, energy management | | |
| | Emergency shutdown (WSD) | | Integrated | | |
| | Datalogger and web server | | Integrated | | |
| | 2 × RS485 | | Modbus RTU SunSpec (third-party provider) / Fronius Smart Meter, Battery (GEN24 Plus), Fronius Ohmpilot | | |

⁷In 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

⁸You can find the current certificates under www.fronius.com/primo-gen24-plus-cert

⁹Full Backup power and battery function only available with GEN24 Plus

Technical data

4.6/5.0/6.0 kW

| | | | Primo GEN24/GEN24 Plus | | | | | | | | |
|------------|--|-------------------|------------------------|-------|-------|-----------|-------|-------|-----------|-------|-------|
| | | | 4.6 | | | 5.0 | | | 6.0 | | |
| Input data | Number of MPP trackers | | 2 | | | 2 | | | 2 | | |
| | DC input voltage range (V _{DC min} - V _{DC max}) | V | 65 - 600 | | | 65 - 600 | | | 65 - 600 | | |
| | Nominal input voltage (V _{DC,r}) | V | 400 | | | 400 | | | 400 | | |
| | Feed-in start voltage (V _{DC start}) | V | 80 | | | 80 | | | 80 | | |
| | Usable MPP voltage range | V | 65 - 530 | | | 65 - 530 | | | 65 - 480 | | |
| | MPP voltage range (at rated power) | V | 230 - 530 | | | 230 - 530 | | | 230 - 480 | | |
| | | | MPPT1 | MPPT2 | Total | MPPT1 | MPPT2 | Total | MPPT1 | MPPT2 | Total |
| | Max. usable input current (I _{DC max}) | A | 22 | 12 | | 22 | 12 | | 22 | 12 | |
| | Max. module array short circuit current (I _{sc pv}) ¹ | A | 36 | 19 | | 36 | 19 | | 36 | 19 | |
| | Number of DC connections | | 2 | | 2 | 2 | | 2 | 2 | | 2 |
| | Max. usable DC output | W | 4,750 | 4,750 | 4,750 | 5,170 | 5,170 | 5,170 | 6,200 | 5,760 | 6,200 |
| | Max. PV generator output | W _{peak} | 5,750 | 4,750 | 6,900 | 6,250 | 5,170 | 7,500 | 7,500 | 5,760 | 9,000 |

| | | | | | | | | | | | |
|-------------|--|----|----------------------------|----------|--|----------|----------|--|----------|----------|--|
| Output data | AC rated power (P _{AC,r}) | W | 4,600 | | | 5,000 | | | 6,000 | | |
| | Apparent power | VA | 4,600 | | | 5,000 | | | 6,000 | | |
| | Max. output power | VA | 4,600 | | | 5,000 | | | 6,000 | | |
| | | | 220 V AC | 230 V AC | | 220 V AC | 230 V AC | | 220 V AC | 230 V AC | |
| | Nominal AC output current | A | 20.9 | 20 | | 22.7 | 21.7 | | 27.3 | 26.1 | |
| | Grid connection (V _{AC,r}) | V | 1~ NPE 220/230 (+20%/-30%) | | | | | | | | |
| | Frequency (frequency range f _{min} - f _{max}) | Hz | 50/60 (45 - 65) | | | | | | | | |
| | Total harmonic distortion | % | < 2 | | | < 2 | | | < 2 | | |
| | Power factor (cos φ _{ac,r}) | | 0.8 - 1 ind. / cap. | | | | | | | | |

| | | | | | | | | | | | |
|----------------------|-------------------------------|------|----------------|--|--|-------|--|--|-------|--|--|
| Output data PV Point | Nominal output power PV Point | VA | 3,000 | | | 3,000 | | | 3,000 | | |
| | PV Point grid connection | V | 1~ NPE 220/230 | | | | | | | | |
| | Switchover time | sec. | < 23 | | | < 23 | | | < 23 | | |

 **Full Backup power and battery function only available with GEN24 Plus**

| | | | Primo GEN24 Plus | | | | | | | | |
|--------------------------------------|----------------------------------|------|------------------|--|--|-------|--|--|-------|--|--|
| | | | 4.6 | | | 5.0 | | | 6.0 | | |
| Output data Full Backup ² | Nominal Full Backup output power | VA | 4,600 | | | 5,000 | | | 6,000 | | |
| | Full Backup grid connection | V | 1~ NPE 220/230 | | | | | | | | |
| | Switchover time | sec. | < 35 | | | < 35 | | | < 35 | | |

| | | | | | | | | | | | |
|--------------------|--|---|--|--|--|-----------|--|--|-----------|--|--|
| Battery connection | Number of DC inputs | | 1 | | | 1 | | | 1 | | |
| | Max. input current (I _{DC max}) | A | 22 | | | 22 | | | 22 | | |
| | DC input voltage range (U _{DC min} - U _{DC max}) ³ | V | 150 - 455 | | | 150 - 455 | | | 150 - 455 | | |
| | DC battery connection technology | | 1 × BATT+ and 1 × BATT- push-in tension clamp terminals 2,5 - 10 mm ² | | | | | | | | |
| | Max. DC input/output power ⁴ | W | 4,750 | | | 5,170 | | | 6,200 | | |
| | Max. charging power with AC coupling ⁴ | W | 4,600 | | | 5,000 | | | 6,000 | | |
| | Compatible batteries ⁵ | | BYD Battery-Box Premium HVS/HVM ⁶ | | | | | | | | |

¹ I_{sc pv} = I_{sc max} ≥ I_{sc (STC)} × 1.25 according to e.g. IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021.

² The Full Backup option is available for the Primo GEN24 3.0-10.0 Plus. Additional external components for grid switchover are required for the Full Backup. See the Operating Instructions for further details.

³ AC power derating of the inverter occurs with a DC battery input voltage of 419.7 V and higher

⁴ Depending on the connected battery

⁵ Depending on country-specific certification and availability

⁶ Excluding BYD Battery-Box Premium HVS 10.2, HVS 12.8, HVM 8.3, HVM 22.1

Fronius GEN24. Designed to empower.

| | | | Primo GEN24/GEN24 Plus | | |
|-------------------------------------|---|---|--|------------|------------|
| | | | 4.6 | 5.0 | 6.0 |
| General data | Dimensions (height × width × depth) | mm | 530 × 474 × 165 | | |
| | Weight (inverter/with packaging) | kg | 15.4/19 | 15.4/19 | 15.4/19 |
| | Degree of protection | | IP 66 | IP 66 | IP 66 |
| | Safety class | | 1 | 1 | 1 |
| | Night-time consumption | W | <10 | <10 | <10 |
| | Overvoltage category (DC/AC) ⁷ | | 2/3 | 2/3 | 2/3 |
| | Inverter concept | | Transformerless | | |
| | Cooling | | Active Cooling Technology | | |
| | Installation | | Indoor and outdoor installation | | |
| | Ambient temperature range | °C | -40 to +60 | -40 to +60 | -40 to +60 |
| | Permissible humidity | % | 0 - 100 | 0 - 100 | 0 - 100 |
| | Noise emissions | dB (A) | < 42 | < 42 | < 42 |
| | Max. altitude | m | 4,000 | 4,000 | 4,000 |
| | DC PV connection technology | | 4 × DC+ and 4 × DC- push-in tension clamp terminals 2,5 - 10 mm ² | | |
| | AC connection technology | | 3-pin AC push-in tension clamp terminals 2.5 - 10 mm ² 3-pin backup power push-in tension clamp terminals 1.5 - 10 mm ² 2 × PE screw terminals 2.5 - 16 mm ² and 3 × 2.5 - 10 mm ² | | |
| | Certificates and compliance with standards ⁸ | | IEC 62109, IEC 62909, AS/NZS 4777.2, CEI 0-21, ABNT BNR 16149 und 16150, IEC 62116, IEC 61727, G98/G99, R25 | | |
| Backup power functions ⁹ | | PV Point and Full Backup | | | |
| Producing country | | Austria | | | |
| Life Cycle Assessment | | According to ÖNORM EN ISO 14040 and 14044 (verified by employees of Fraunhofer IZM) | | | |
| Efficiency | Maximum efficiency | % | 97.6 | 97.6 | 97.6 |
| | European efficiency (ηEU) | % | 96.8 | 97.0 | 97.1 |
| | MPP adjustment efficiency | % | > 99.9 | > 99.9 | > 99.9 |
| Protective devices | DC isolation measurement | | Integrated | | |
| | Overload performance | | Operating point adjustment, power limitation | | |
| | DC disconnecter | | Integrated | | |
| | Reverse polarity protection | | Integrated | | |
| Interfaces | Wi-Fi / 2 × Ethernet LAN | | Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON) | | |
| | 6 digital inputs 6 digital inputs/outputs | | Interface to ripple control receiver, energy management | | |
| | Emergency shutdown (WSD) | | Integrated | | |
| | Datalogger and web server | | Integrated | | |
| | 2 × RS485 | | Modbus RTU SunSpec (third-party provider) / Fronius Smart Meter, Battery (GEN24 Plus), Fronius Ohmpilot | | |

⁷In 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

⁸You can find the current certificates under www.fronius.com/primo-gen24-plus-cert

⁹Full Backup power and battery function only available with GEN24 Plus

Technical data

8.0/10.0 kW

| | | | Primo GEN24/GEN24 Plus | | | | | |
|--------------------------|--|--------|------------------------|--------|--------|-----------|--------|--------|
| | | | 8.0 | | | 10.0 | | |
| Input data | Number of MPP trackers | | 2 | | | 2 | | |
| | DC input voltage range (V _{DC min} - V _{DC max}) | V | 65 - 600 | | | 65 - 600 | | |
| | Nominal input voltage (V _{DC,r}) | V | 400 | | | 400 | | |
| | Feed-in start voltage (V _{DC start}) | V | 80 | | | 80 | | |
| | Usable MPP voltage range | V | 65 - 480 | | | 65 - 480 | | |
| | MPP voltage range (at rated power) | V | 260 - 480 | | | 260 - 480 | | |
| | | | MPPT1 | MPPT2 | Total | MPPT1 | MPPT2 | Total |
| | Max. usable input current (I _{DC max}) | A | 22 | 22 | 22 | 22 | 22 | 22 |
| | Max. module array short circuit current (I _{sc pv}) ¹ | A | 41.25 | 36 | 41.25 | 36 | 41.25 | 36 |
| | Number of DC connections | | 2 | | 2 | | 2 | |
| | | | MPPT1 | MPPT2 | Total | MPPT1 | MPPT2 | Total |
| | Max. usable DC output | W | 8,260 | 8,260 | 8,260 | 10,360 | 10,360 | 10,360 |
| Max. PV generator output | W _{peak} | 10,000 | 10,000 | 12,000 | 12,500 | 12,500 | 15,000 | |

| | | | | | | | | |
|-------------|--|----|----------------------------|---------------------|-------|---------------------|---------------------|-------|
| Output data | AC rated power (P _{AC,r}) | W | 8,000 | | | 10,000 | | |
| | Apparent power | VA | 8,000 | | | 10,000 | | |
| | Max. output power | VA | 8,000 | | | 10,000 | | |
| | | | 220 V _{AC} | 230 V _{AC} | Total | 220 V _{AC} | 230 V _{AC} | Total |
| | Nominal AC output current | A | 36.4 | 34.8 | 36.4 | 45.5 | 43.5 | 45.5 |
| | Grid connection (V _{AC,r}) | V | 1~ NPE 220/230 (+20%/-30%) | | | | | |
| | Frequency (frequency range f _{min} - f _{max}) | Hz | 50/60 (45 - 65) | | | | | |
| | Total harmonic distortion | % | < 3 | | | < 3 | | |
| | Power factor (cos φ _{ac,r}) | | 0.8 - 1 ind. / cap. | | | | | |

| | | | | | | | | |
|----------------------|-------------------------------|------|----------------|--|--|-------|--|--|
| Output data PV Point | Nominal output power PV Point | VA | 3,000 | | | 3,000 | | |
| | PV Point grid connection | V | 1~ NPE 220/230 | | | | | |
| | Switchover time | sec. | < 35 | | | < 35 | | |

 Full Backup power and battery function only available with GEN24 Plus

| | | | Primo GEN24 Plus | | | | | |
|--------------------------------------|----------------------------------|------|------------------|--|--|--------|--|--|
| | | | 8.0 | | | 10.0 | | |
| Output data Full Backup ² | Nominal Full Backup output power | VA | 8,000 | | | 10,000 | | |
| | Full Backup grid connection | V | 1~ NPE 220/230 | | | | | |
| | Switchover time | sec. | < 45 | | | < 45 | | |

| | | | | | | | | |
|-----------------------------------|--|--|--|--|--|-----------|--|--|
| Battery connection | Number of DC inputs | | 1 | | | 1 | | |
| | Max. input current (I _{DC max}) | A | 22 | | | 22 | | |
| | DC input voltage range (U _{DC min} - U _{DC max}) ³ | V | 150 - 455 | | | 150 - 455 | | |
| | DC battery connection technology | | 1 × BATT+ and 1 × BATT- push-in tension clamp terminals 2.5 - 10 mm ² | | | | | |
| | Max. DC input/output power ⁴ | W | 8,260 | | | 10,360 | | |
| | Max. charging power with AC coupling ⁴ | W | 8,000 | | | 10,000 | | |
| Compatible batteries ⁵ | | BYD Battery-Box Premium HVS/HVM ⁶ | | | | | | |

¹ I_{sc pv} = I_{sc max} ≥ I_{sc (STC)} × 1.25 according to e.g. IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021.

² The Full Backup option is available for the Primo GEN24 3.0–10.0 Plus. Additional external components for grid switchover are required for the Full Backup. See the Operating Instructions for further details.

³ AC power derating of the inverter occurs with a DC battery input voltage of 419.7 V and higher

⁴ Depending on the connected battery

⁵ Depending on country-specific certification and availability

⁶ Excluding BYD Battery-Box Premium HVS 10.2, HVS 12.8, HVM 8.3, HVM 22.1

Fronius GEN24. Designed to empower.

| | | | Primo GEN24/GEN24 Plus | |
|-------------------------------------|---|--|--|------------|
| | | | 8.0 | 10.0 |
| General data | Dimensions (height × width × depth) | mm | 595 x 529 x 180 | |
| | Weight (inverter/with packaging) | kg | 21 / 26 | 21 / 26 |
| | Degree of protection | | IP 66 | IP 66 |
| | Safety class | | 1 | 1 |
| | Night-time consumption | W | < 10 | < 10 |
| | Overvoltage category (DC/AC) ⁷ | | 2/3 | 2/3 |
| | Inverter concept | | Transformerless | |
| | Cooling | | Active Cooling Technology | |
| | Installation | | Indoor and outdoor installation | |
| | Ambient temperature range | °C | -40 to +60 | -40 to +60 |
| | Permissible humidity | % | 0 - 100 | 0 - 100 |
| | Noise emissions | dB (A) | < 51 | < 51 |
| | Max. altitude | m | 4,000 | 4,000 |
| | DC PV connection technology | | 4 × DC+ and 4 × DC- push-in tension clamp terminals 2.5 - 10 mm ² | |
| | AC connection technology | | 3-pin AC push-in tension clamp terminals 2.5 - 16 mm ² 3-pin backup power push-in tension clamp terminals 1.5 - 10 mm ² 2 × PE screw terminals 2.5 - 16 mm ² and 3 × 2.5 - 10 mm ² | |
| | Certificates and compliance with standards ⁸ | | IEC 62109, IEC 62909, AS/NZS 4777.2, IEC 62116, IEC 61727 ABNT BNR 16149 und 16150, IEC 62116, IEC 61727 | |
| Backup power functions ⁹ | | PV Point or Full Backup | | |
| Producing country | | Austria | | |
| Life Cycle Assessment | | According to ÖNORM EN ISO 14040 and 14044 (verified by employees of Fraunhofer IZM) | | |
| Efficiency | Maximum efficiency | % | 97.3 | 97.3 |
| | European efficiency (η _{EU}) | % | 96.9 | 97.0 |
| | MPP adjustment efficiency | % | > 99.9 | > 99.9 |
| Protective devices | DC isolation measurement | | Integrated | |
| | Overload performance | | Operating point adjustment, power limitation | |
| | DC disconnect | | Integrated | |
| | Reverse polarity protection | | Integrated | |
| Interfaces | Wi-Fi / 2 × Ethernet LAN | | Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON) | |
| | 6 digital inputs 6 digital inputs/outputs | | Interface to ripple control receiver, energy management | |
| | Emergency shutdown (WSD) | | Integrated | |
| | Datalogger and web server | | Integrated | |
| | 2 × RS485 | | Modbus RTU SunSpec (third-party provider) / Fronius Smart Meter, Battery (GEN24 Plus), Fronius Ohmpilot | |

⁷In 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

⁸You can find the current certificates under www.fronius.com/primo-gen24-plus-cert

⁹Full Backup power and battery function only available with GEN24 Plus

For further information on the availability of the inverters in your country, please visit www.fronius.com.

More information at www.fronius.com/gen24

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