

OVERSIZING FRONIUS PRIMO GEN24

Fronius International GmbH

Hereby confirms that the inverters

- / **Fronius Primo GEN24 3.0 (Plus)**
- / **Fronius Primo GEN24 4.6 (Plus)**
- / **Fronius Primo GEN24 3.6 (Plus)**
- / **Fronius Primo GEN24 5.0 (Plus)**
- / **Fronius Primo GEN24 4.0 (Plus)**
- / **Fronius Primo GEN24 6.0 (Plus)**

can be oversized above the rated nameplate capacity without voiding the manufacturer's warranty, always provided that the following conditions are adhered to.

- / The string and array (PV generator) configuration do not exceed the sizing limits of the inverter stated in the official datasheets and in this document (I_{sc_max} , P_{pv_max} , U_{dc_max}).

This includes but it is not limited to conditions, like low temperatures, high irradiances, bifacial gain, etc. Exceeding any of these limits can destroy the inverter or even cause harm or injury.

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)
DC input voltage range ($U_{dc\ min} - U_{dc\ max}$)	65 - 600 V ($U_{oc\ max}$ of the PV array \leq 600 V)					
Usable MPP input current (MPPT1/MPPT2/total) (I_{dc_max})	22 / 12 / 34 A	22 / 12 / 34 A	22 / 12 / 34 A	22 / 12 / 34 A	22 / 12 / 34 A	22 / 12 / 34 A
Max. PV generator short circuit current (MPPT1/MPPT2/total) (I_{sc_max})	36 / 19 / 51 A	36 / 19 / 51 A	36 / 19 / 51 A	36 / 19 / 51 A	36 / 19 / 51 A	36 / 19 / 51 A
Max. usable DC power (MPPT1/MPPT2/total) (P_{dc_max})	3.11 / 3.11 / 3.11 kW	3.81 / 3.81 / 3.81 kW	4.1 / 4.1 / 4.1 kW	4.75 / 4.75 / 4.75 kW	5.17 / 5.17 / 5.17 kW	6.2 / 5.76 / 6.2 kW
Max. PV generator power (MPPT1/MPPT2/total) (P_{pv_max})	3.75 / 3.11 / 4.5 kWpeak	4.6 / 3.81 / 5.52 kWpeak	5 / 4.14 / 6 kWpeak	5.75 / 4.75 / 6.9 kWpeak	6.25 / 5.17 / 7.5 kWpeak	7.5 / 5.76 / 9 kWpeak
reduced DC input voltage range ($U_{dc\ min} - U_{dc\ max}$)	65 - 450 V ($U_{oc\ max}$ of the PV array \leq 450 V)					
Max. PV generator power @ reduced DC input voltage range *** (MPPT1/MPPT2/total) (P_{pv_max})	4.5 / 4.5 / 6 kWpeak	5.5 / 4.5 / 7.36 kWpeak	6 / 4.5 / 8 kWpeak	6.9 / 5.75 / 9 kWpeak	7 / 5.75 / 9 kWpeak	7.5 / 5.76 / 9 kWpeak

***Note - the oversizing values in the table vary depending on the PV array max. voltage U_{oc_max} .

- / Reverse polarity of solar module strings can lead to an unacceptable overload condition. This can cause an arc, which can lead to a fire and also cause harm or injury. Always make sure that the polarity is correct before connecting the individual solar module strings.

/ Do not disconnect any conductor / circuits under load with measures (like but not limited to plugs, terminals, fuses, ...) that are not explicitly specified for disconnection under load. This can cause an arc, which can lead to a fire and also cause harm or injury. Always make sure that there is no current flowing through the conductors / circuits, e.g., by testing with a DC-clamp-ammeter. (Note: Standard AC-clamp-ammeters cannot detect DC-currents!)

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A handwritten signature in black ink, appearing to read "P. Rechberger".

Philipp Rechberger

Head of System Technology