

OVERSIZING FRONIUS PRIMO GEN24 3.0 – 10.0 (PLUS)

Fronius International GmbH

hereby confirms that the following inverters

/ Fronius Primo GEN24 3.0 – 10.0 (Plus)

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

The string and array (PV generator) configuration must not exceed the sizing limits of the inverter stated in the official datasheets and this document (I_{sc_max} , P_{pv_max} , U_{dc_max}). This includes but it is not limited to conditions at 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)
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
Max. PV generator short circuit current (MPPT1/MPPT2/total) (I_{sc_max})	41.25 / 22 / 63.25 A	41.25 / 22 / 63.25 A	41.25 / 22 / 63.25 A	41.25 / 22 / 63.25 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
Max. PV generator power (MPPT1/MPPT2/total) (P_{pv_max})	3.75 / 3.11 / 4.5 kWp	4.6 / 3.81 / 5.52 kWp	5 / 4.14 / 6 kWp	5.75 / 4.75 / 6.9 kWp
Reduced DC input voltage range ($U_{dc\ min} - U_{dc\ max}$)	65 - 530 V ($U_{oc\ max}$ of the PV array $\leq$ 530 V)			
Max. PV generator power @ reduced DC input voltage range *** (MPPT1/MPPT2/total) (P_{pv_max})	7.5 / 7.5 / 7.5 kWp	9 / 7.5 / 9 kWp	10 / 7.5 / 10 kWp	11.5 / 7.5 / 11.5 kWp
INPUT DATA	PRIMO GEN24 5.0 (PLUS)	PRIMO GEN24 6.0 (PLUS)	PRIMO GEN24 8.0 (PLUS)	PRIMO GEN24 10.0 (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 / 22 / 44 A	22 / 22 / 44 A
Max. PV generator short circuit current (MPPT1/MPPT2/total) (I_{sc_max})	41.25 / 22 / 63.25 A	41.25 / 22 / 63.25 A	41.25 / 41.25 / 82.5 A	41.25 / 41.25 / 82.5 A
Max. usable DC power (MPPT1/MPPT2/total) (P_{dc_max})	5.17 / 5.17 / 5.17 kW	6.2 / 5.76 / 6.2 kW	8.26 / 8.26 / 8.26 kW	10.36 / 10.36 / 10.36 kW
Max. PV generator power (MPPT1/MPPT2/total) (P_{pv_max})	6.25 / 5.17 / 7.5 kWp	7.5 / 5.76 / 9 kWp	10 / 10 / 12 kWp	12.5 / 12.5 / 15 kWp
Reduced DC input voltage range ($U_{dc\ min} - U_{dc\ max}$)	65 - 530 V ($U_{oc\ max}$ of the PV array $\leq$ 530 V)			
Max. PV generator power @ reduced DC input voltage range *** (MPPT1/MPPT2/total) (P_{pv_max})	12.5 / 7.5 / 12.5 kWp	14 / 7.5 / 15 kWp	14 / 14 / 20 kWp	14 / 14 / 25 kWp

***The oversizing values in the tables vary depending on the PV array max. voltage

U_{oc_max} .

Note: According to commonly referenced standards such as IEC 60364-7-712, NEC 2020, and AS/NZS 5033:2021, I_{sc_pv} is defined as: $I_{sc_pv} \geq I_{sc_max} = I_{sc} (STC) \times 1.25$.

For additional details, please refer to the relevant technical datasheets.

Fronius International GmbH

Solar & Energy

Froniusplatz 1

4600 Wels



FRONIUS INTERNATIONAL GMBH
Froniusplatz 1, A-4600 Wels
Tel.: +43/(0)7242/241-0, Fax: 241-3013

Philipp Rechberger

Group Lead System Integration