

OVERSIZING FRONIUS PRIMO GEN24

Fronius International GmbH

Hereby confirms that the inverters

/ Fronius Primo GEN24 3.0 – 10.0 (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)	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/MPPT2total) ($I_{dc,max}$)	22 / 12 / 34 A	22 / 12 / 34 A	22 / 12 / 34 A	22 / 12 / 34 A	22 / 12 / 34 A	22 / 12 / 34 A	22 / 22 / 44 A	22 / 22 / 44 A
Max. PV generator short circuit current (MPPT1/MPPT2total) ($I_{sc,max}$)	36 / 19 / 51 A	36 / 19 / 51 A	36 / 19 / 51 A	36 / 19 / 51 A	36 / 19 / 51 A	36 / 19 / 51 A	41.25 / 36 / 66 A	41.25 / 36 / 66 A
Max. usable DC power (MPPT1/MPPT2total) ($P_{dc,max}$)	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	8.26 / 8.26 / 8.26 kW	10.36 / 10.36 / 10.36 kW
Max. PV generator power (MPPT1/MPPT2total) ($P_{pv,max}$)	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	10 / 10 / 12 kWpeak	12.5 / 12.5 / 15 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/MPPT2total) ($P_{pv,max}$)	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	12 / 10 / 15 kWpeak	12.5 / 12.5 / 15 kWpeak

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

/ $I_{sc,pv}$ according to IEC 60364-7-712, NEC 2020, AS/NZS 5033:2021 is defined as: $I_{sc,pv} \geq I_{sc,max} = I_{sc}(STC) \times 1.25$ For more detailed information, please see the technical datasheets.

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