

Technical Comparison

String Inverter

FEATURES	GIV-PV-3.6-G3	GIV-PV-5.0-G3	GIV-PV-6.0-G3
Weight	32Kg	32Kg	32Kg
Dimensions (H x D x W)	583 x 205 x 480 (mm)	583 x 205 x 480 (mm)	583 x 205 x 480 (mm)
Protection Class	IP65	IP65	IP65
Noise Emission (Typical)	55dB	55dB	55dB
Operational Temperature	-25°C – 60°C	-25°C – 60°C	-25°C – 60°C
Inverter Topology	Transformerless	Transformerless	Transformerless
Self-Consumption	< 15W	< 15W	< 15W
Charge / Discharge Efficiency	96% / 96%	96% / 96%	96% / 96%
PV Max. Efficiency	97.6%	97.6%	97.6%
Euro Efficiency	97%	97%	97%
Input Data (PV)			
Start-up Voltage	80V	80V	80V
Max. PV Voltage	600V	600V	600V
MPPT Range	90V – 550V	90V – 550V	90V – 550V
MPPT Efficiency	99.9%	99.9%	99.9%
Nominal Voltage	360V	360V	360V
Max. Short Circuit Current	2*23A	2*23A	2*23A
Max. Input Current	17A/17A per string	17A/17A per string	17A/17A per string
MPPT Tracker / No. Strings	2/1	2/1	2/1
Output Data (AC)			
Nominal AC Output Power	3.6kW	5.0kW	6.0kW
Max. Output Current	16A	21.7A	26A
Max. Apparent Power Output	3600VA	5000VA	6000VA
Nominal Voltage / Range	230VAC	230VAC	230VAC
Frequency Range	50 / 60 Hz; ±5 Hz	50 / 60 Hz; ±5 Hz	50 / 60 Hz; ±5 Hz
Power Factor (Full Load)	> 0.99	> 0.99	> 0.99
Power Factor Range	0.8 Lagging... 0.8 Leading	0.8 Lagging... 0.8 Leading	0.8 Lagging... 0.8 Leading
THDI (Nominal Power)	< 3%	< 3%	< 3%
AC Connection	Single Phase	Single Phase	Single Phase

Technical Comparison

String Inverter

FEATURES	GIV-PV-3.6-G3	GIV-PV-5.0-G3	GIV-PV-6.0-G3
PROTECTION DEVICES			
DC Reverse Polarity Protection	Yes	Yes	Yes
DC Switch Rating for each MPPT	Yes	Yes	Yes
Output Overcurrent Protection	Yes	Yes	Yes
Output Overvoltage Protection Varistor	Yes	Yes	Yes
Ground Fault Monitoring	Yes	Yes	Yes
Grid Monitoring	Yes	Yes	Yes
Max. Inrush Current	30A Peak	30A Peak	30A Peak
Max. Output Fault Current	40A Peak	40A Peak	40A Peak
Max. Output Overcurrent Protection	25A RMS	25A RMS	25A RMS
Earth Leakage Current Monitoring	Yes	Yes	Yes
AFCI	Yes	Yes	Yes