



GEP 5-10kW

Single Phase | 3 MPPTs

GEP5.0-1C-30

GEP8.5-1C-30

GEP9.9-1C-30

GEP10-1C-30



Safety First on Your Roof

- Type II surge protection & failure alarm
- Optional AFCI and rapid shutdown*



High Yields

- Up to 20A max. DC input current per string
- 50V start-up voltage



Superior Product Design

- Excellent noise control
- IP66 Protection

The GEP5-10kW Series provides a versatile solution to meet an ever-escalating demand for solar inverters from the residential sector. This powerful single-phase inverter with 3 MPPTs is equipped with the latest technologies and comes with distinct power capacities to serve your purpose with ease. With a low start-up voltage of only 50V, a maximum DC input current of 20A, as well as a short circuit current (Isc) of 25A, the series can harvest more energy from the sun and maintain stable operation over a long period of time. Furthermore, this product comes with advanced Type II Surge Protection Device (SPD) on DC&AC sides, integrated DC switch, as well as optional AFCI and rapid shutdown, enhancing operational safety on all roofs. All of these features are intelligently integrated into a lightweight solution for simple installation.



GEP5-10kW

Single Phase I 3 MPPTs

Technical Data	GEP5.0-1C-30	GEP8.5-1C-30	GEP9.9-1C-30	GEP10-1C-30
Input				
Max. Input Power (W) ⁴	7750	13175	15500	15500
Max. Input Voltage (V)	600	600	600	600
MPPT Operating Voltage Range (V)	40 ~ 560	40 ~ 560	40 ~ 560	40 ~ 560
PV Input Operating Voltage Range (V)	40 ~ 600	40 ~ 600	40 ~ 600	40 ~ 600
Start-up Voltage (V)	50	50	50	50
Nominal Input Voltage (V)	360	360	360	360
Max. Input Current per MPPT (A)	20	20	20	20
Max. Short Circuit Current per MPPT (A)	25	25	25	25
Number of MPP Trackers	3	3	3	3
Number of Strings per MPPT	1	1	1	1
Output				
Nominal Output Power (W)	5000	8500	9900	10000
Nominal Output Apparent Power (VA)	5000	8500	9900	10000
Max. AC Active Power (W)	5500	9350	9900	10000
Max. AC Apparent Power (VA)	5500	9350	9900	10000
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Output Voltage Range (V) (according to local standard)	160 ~ 270	160 ~ 270	160 ~ 270	160 ~ 270
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
AC Grid Frequency Range (Hz)	45 ~ 65	45 ~ 65	45 ~ 65	45 ~ 65
Max. Output Current (A) ¹	24.0	40.7	43.1	43.5
Rated Output Current(A)	24.0	40.7	43.1	43.5
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency ²	97.8%	97.9%	97.9%	97.9%
European Efficiency ³	97.2%	97.3%	97.3%	97.3%
Protection				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II
AC Surge Protection	Type II	Type II	Type II	Type II
AFCI	Optional	Optional	Optional	Optional
Power Supply at Night	Optional	Optional	Optional	Optional
General Data				
Operating Temperature Range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	4000	4000	4000	4000
Cooling Method	Natural Convection	Natural Convection	Natural Convection	Natural Convection
User Interface	LCD, LED (Optional)	LCD, LED (Optional)	LCD, LED (Optional)	LCD, LED (Optional)
Communication	WiFi, RS485 / LAN / DI (Ripple Control or DRM) (Optional)			
Communication Protocols	Modbus-RTU (SunSpec Compliant)			
Weight (kg)	19	19	19	19
Dimension (W × H × D mm)	441 × 507 × 210	441 × 507 × 210	441 × 507 × 210	441 × 507 × 210
Noise Emission (dB)	<30	<30	<30	<30
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1
Ingress Protection Rating	IP66	IP66	IP66	IP66
DC Connector	MC4 (2.5 ~ 4mm ²)	MC4 (2.5 ~ 4mm ²)	MC4 (2.5 ~ 4mm ²)	MC4 (2.5 ~ 4mm ²)
AC Connector	AC connector	AC connector	AC connector	AC connector
Country of Manufacture	China	China	China	China

*1: For Brazil Max. Output Current (A): GEP10-1C-30 is 45.5.

*2: For Brazil Max. Efficiency: GEP10-1C-30 is 97.8%.

*3: For Brazil European Efficiency: GEP10-1C-30 is 97.2%.

*4: For Brazil Max. Input Power (W): GEP10-1C-30 is 18000.

*: Optional functions or devices are purchased separately.

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