



GEP 5-10kW

Single-phase | 3 MPPTs

GEP5.0-1C-10

GEP7.0-1-10

GEP8.5-1-10

GEP9.0-1-10

GEP10-1-10

High Power Generation

- 3 MPPTs
- Up to 200% DC oversizing
- Start-up voltage of only 80V

Intelligent Control

- Load consumption monitoring
- Smart shadow scan
- Inbuilt export control

The GEP 5-10kW is the ultimate solution to cater for the residential segment's rising expectations. This powerful single-phase model boasts 3 MPPTs for maximum power retention and absolute minimum power loss. With a startup voltage of only 80V, this superior, intelligently efficient inverter is specifically designed to harness solar power from sunrise to sunset regardless of irradiation and weather conditions. Its maximum efficiency reaches 97.7% while it can realize 200% DC over sizing and 110% AC overloading. All these features are intelligently packed into a lightweight model for a comfortable installation.



GEP 5-10kW

3 MPPTs | Single-phase

Technical Data	GEP5.0-1C-10	GEP7.0-1-10	GEP8.5-1-10	GEP9.0-1-10	GEP10-1-10
Input					
Max. Input Voltage (V)	600	600	600	600	600
MPPT Operating Voltage Range (V)	80 ~ 550	80 ~ 550	80 ~ 550	80 ~ 550	80 ~ 550
Start-up Voltage (V)	80	80	80	80	80
Nominal Input Voltage (V)	360	360	360	360	360
Max. Input Current per MPPT (A)	16	16	16	16	16
Max. Short Circuit Current per MPPT (A)	20	20	20	20	20
Number of MPP Trackers	3	3	3	3	3
Number of Strings per MPPT	1	1	1	1	1
Output					
Nominal Output Power (W)	5000	7000	8500	9000	10000
Nominal Output Apparent Power (VA)	5000	7000	8500	9000	10000
Max. AC Active Power (W)	5500	7700	9350	9900	10000
Max. AC Apparent Power (VA)	5500	7700	9350	9900	10000
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	23.9	35.0	42.5	45.0	45.5
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	97.7%	97.6%	97.8%	97.6%	97.8%
European Efficiency	97.3%	97.2%	97.5%	97.3%	97.5%
Protection					
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II	Type II
AC Surge Protection	Type II	Type II	Type II	Type II	Type II
AFCI	Optional	Optional	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	Optional	Optional
General Data					
Operating Temperature Range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m) ¹	4000	4000	4000	4000	4000
Cooling Method	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Natural Convection
User Interface	LED, LCD	LED, LCD	LED, LCD	LED, LCD	LED, LCD
Communication	WiFi or RS485 or LAN (Optional)				
Communication Protocols	Modbus-RTU (SunSpec Compliant)				
Weight (kg)	22.5	22.5	22.5	22.5	22.5
Dimension (W × H × D mm)	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175
Noise Emission (dB)	<30	<30	<30	<30	<30
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (Max. 6 mm ²)	MC4 (Max. 6 mm ²)	MC4 (Max. 6 mm ²)	MC4 (Max. 6 mm ²)	MC4 (Max. 6 mm ²)
AC Connector	AC Connector	AC Connector	AC Connector	AC Connector	AC Connector

*1: For Australia Max. Operating Altitude (m) is 3000.

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