



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


 3 MPPTs

 13A Per String

 Compatible with High Power Modules

 Type II SPD

 Inbuilt Export Control

 Smart Shadow Scan

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. Extra reflections from the backside of bifacial panels drive the inverter to its maximum capacity and un-leash its full potential of 200% DC oversizing, allowing for up to 110% AC overloading. All these features intelligently packed into a light-weight 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 Power (W)	10000	13500	13500	13500	13500
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)	13/13/13	13/13/13	13/13/13	13/13/13	13/13/13
Max. Short Circuit Current per MPPT (A)	16.3/16.3/16.3	16.3/16.3/16.3	16.3/16.3/16.3	16.3/16.3/16.3	16.3/16.3/16.3
Number of MPPTs	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 Apparent Power (VA)	5500	7700	9350	9900	10000
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230	220/230
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	23.9	35	42.5	45	45.5
Nominal Output Current (A)	21.7	30.4	37	39.1	43.5
Output 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					
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
DC 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 Surge Arrester	Integrated (Type II)				
AC Surge Arrester	Integrated (Type II)				
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)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Natural Convection				
Display	LCD&LED	LCD&LED	LCD&LED	LCD&LED	LCD&LED
Communication	Wi-Fi / RS485 / LAN (Optional)				
Weight (Kg)	22.5	22.5	22.5	22.5	22.5
Dimension (W × H × D mm)	511 × 415 × 175				
Topology	Transformerless				
Night Power Consumption (W)	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65

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