



# GEP 4.6-10kW

3 MPPT | Single-phase

GEP5.0-1C-10

GEP8.5-1-10

GEP10-1-10

The GEP 4.6-10kW is the ultimate solution to cater for the residential segment's rising expectations. This powerful single-phase model boasts 3 MPPT 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 100% DC oversizing, allowing for up to 10% AC overloading. All these features intelligently packed into a light-weight model for a comfortable installation.



**Inbuilt DC Isolator**



**Inbuilt Export Control**



**13A Per String**



**MPPT 3 MPPT**



**Compatible with High Power Modules**



**Smart Shadow Scan**



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3 MPPT | Single-phase

Technical Data	GEP5.0-1C-10	GEP8.5-1-10	GEP10-1-10
<b>PV String Input Data</b>			
Max. DC Input Power (W)	10000	13500	13500
Max. DC Input Voltage (V)	600	600	600
MPPT Range (V)	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80
Min. Feed-in Voltage(V)	120	120	120
Nominal DC Input Voltage (V)	360	360	360
PV Input Operating Voltage range (V)	80~600	80~600	80~600
Max. Inverter Backfeed Current To The array (A)	0	0	0
Max. Input Current (A)	13/13/13	13/13/13	13/13/13
Max. Short Current (A)	16.3/16.3/16.3	16.3/16.3/16.3	16.3/16.3/16.3
No. of MPP Trackers	3	3	3
No. of Input Strings per Tracker	1/1/1	1/1/1	1/1/1
<b>AC Output Data</b>			
Nominal Output Power (W)	4999	8500	10000
Max. Output Apparent Power (VA)	4999	9350	10000
Nominal Output Voltage (V)	230	230	230
Nominal Output Frequency (Hz)	50	50	50
Max. Output Current (A)	21.7	42.5	45.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%
Current (inrush)	150	150	150
Maximum Output Fault Current	120	120	120
Maximum Output Over Current Protection (A)	80	90	90
<b>Efficiency</b>			
Max. Efficiency	97.7%	97.8%	97.8%
European Efficiency	97.3%	97.5%	97.5%
<b>Protection</b>			
Anti-islanding Protection	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated
DC SPD Protection	Integrated (Type II)	Integrated (Type II)	Integrated (Type II)
AC SPD Protection	Integrated (Type II)	Integrated (Type II)	Integrated (Type II)
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated
Protective Class	Class I	Class I	Class I
Decisive Voltage Classification (DVC)	C	C	C
<b>General Data</b>			
Operating Temperature Range (°C)	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000
Cooling	Natural Convection	Natural Convection	Natural Convection
User Interface	LCD&LED	LCD&LED	LCD&LED
Communication	Wi-Fi/RS485/LAN (Optional)	Wi-Fi/RS485/LAN (Optional)	Wi-Fi/RS485/LAN (Optional)
Weight (kg)	22.5	22.5	22.5
Dimensions (W × H × D mm)	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175
Protection Degree	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless

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