



GEP 5-10kW

3 MPPT | Single-phase

Technical Data	GEP5.0-1C-10	GEP8.5-1-10	GEP10-1-10
PV String Input Data			
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
AC Output Data			
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
Efficiency			
Max. Efficiency	97.7%	97.8%	97.8%
European Efficiency	97.3%	97.5%	97.5%
Protection			
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	DC II; AC III	DC II; AC III	DC II; AC III
Decisive Voltage Classification (DVC)	C	C	C
General Data			
Operating Temperature Range (°C)	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%
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
Size (Width*Height*Depth 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