GEP 5-20kW

Three-phase | 2 MPPTs

GEP5.0-3-10 | GEP8-3-AU10 | GEP10-3-AU10

GEP15-3-10 | GEP20-3-10

High Yields

- Up to 200% DC oversizing & 110% AC overloading
- Max. 15A per string

Safety First on Your Roof

- AFCI & module-level rapid shutdown for safest solar*
- Type II SPD now exchangeable*

User & Installer Friendly

- A pleasant living environment thanks to excellent noise control: 5-10kW <25dB
- 24h real-time consumption monitoring*

Intelligent safety features and unmatched efficiency place this model into a league of its own. This three phase inverter is a perfect choice for small business needs and a wider scale of residential applications, with the capability of 200% oversizing, incredible efficiency, and compatibility with the latest high power & bifacial modules. The most advanced safety features are intelligently integrated for maximum security and peace of mind. The modular design makes operation and maintenance much easier, providing upgraded safety and reliability. Welcome to the future of intelligent energy. Say hello to GEP 5-20kW.

GEP 5-20kW

2 MPPTs | Three-phase

Technical Data	GEP5.0-3-10	GEP8-3-AU10	GEP10-3-AU10	GEP15-3-10	GEP20-3-10
Input					
Max.Input Voltage (V)	1100	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	140~950	140~950	140~950	140~950	140~950
Start-up Voltage (V)	180	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620	620
Max. Input Current per MPPT (A)	15/15	30/30	30/30	30/30	30/30
Max. Short Circuit Current per MPPT (A)	18.7/18.7	37.5/37.5	37.5/37.5	37.5/37.5	37.5/37.5
Number of MPPTs	2	2	2	2	2
Number of Strings per MPPT	1	2	2	2	2
Output					
Nominal Output Power (W)	5000	8000	10000	15000	20000
Max. AC Active Power (W)	5500	8800	11000	16500	22000
Max. AC Apparent Power (VA)	5500	8800	11000	16500	22000
Nominal Output Voltage (V)	3/N/PE, 220/380 3/N/PE, 230/400 3/N/PE, 240/415				
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	8.0	12.8	16.0	24.0	32.0
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	98.3%	98.3%	98.3%	98.4%	98.4%
European Efficiency	97.6%	97.6%	97.6%	97.8%	97.8%
Protection					
DC Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated
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 Switch	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Arrester	Type II	Type II	Type II	Type II	Type II
AC Surge Arrester	Type III (Type II Optional)				
DC Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional
General Data					
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Max. Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Natural Covection			Fan Cooling	
Display	LED; LCD (Optional); WiFi+APP/Bluetooth+APP				
Communication	RS485/WiFi/LAN/4G				
Weight (Kg)	20.5	24	24	26	26
Dimension (W × H × D mm)	415 × 511 × 175			415 × 511 × 198	
Noise Emission (dB)	<25			<45	
Topology	Transformerless				
Night Power Consumption (W)	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (2.5~4mm²)				
AC Connector	OT Terminal				
Country of Manufacture	China				

* Optional functions are purchased separately.