



GEP 5-20kW

Three-phase | 2 MPPTs

GEP5.0-3-10

GEP8-3-AU10

GEP9.9-3-AU10

GEP10-3-AU10

GEP15-3-10

GEP20-3-10



High Yields

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



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.



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2 MPPTs | Three-phase

Technical Data	GEP5.0-3-10	GEP8-3-AU10	GEP9.9-3-AU10	GEP10-3-AU10	GEP15-3-10	GEP20-3-10
Input						
Max. Input Power (W)	10000	16000	20000	20000	30000	40000
Max. Input Voltage (V)	1100	1100	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	140 ~ 950	140 ~ 950	140~950	140 ~ 950	140 ~ 950	140 ~ 950
Start-up Voltage (V)	180	180	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620	620	620
Max. Input Current per MPPT (A)	15	30	30	30	30	30
Max. Short Circuit Current per MPPT (A)	18.7	37.5	37.5	37.5	37.5	37.5
Number of MPP Trackers	2	2	2	2	2	2
Number of Strings per MPPT	1	2	2	2	2	2
Output						
Nominal Output Power (W)	8000	8000	9900	10000	15000	20000
Nominal Output Apparent Power (VA)	8000	8000	9900	10000	15000	20000
Max. AC Active Power (W)	8800	8800	9900	11000	16500	22000
Max. AC Apparent Power (VA)	8800	8800	9900	11000	16500	22000
Nominal Output Voltage (V)	380 / 400 / 415, 3 / N / PE					
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	8.0	12.8	14.4	16.0	24.0	32.0
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
Max. Efficiency	98.3%	98.3%	98.3%	98.3%	98.4%	98.4%
European Efficiency	97.6%	97.6%	97.6%	97.6%	97.8%	97.8%
Protection						
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II	Type II	Type II
AC Surge Protection	Type III (Type II Optional)					
AFCI	Optional	Optional	Optional	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	Optional	Optional	Optional
General Data						
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60	-30 ~ +60	-30 ~ +60	-30 ~ +60	-30 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	3000	3000	3000	3000	3000	3000
Cooling Method	Natural Convection			Smart Fan Cooling		
User Interface	LED, LCD (Optional), WLAN + APP					
Communication	RS485 or WiFi or LAN or 4G (Optional)					
Communication Protocols	Modbus-RTU (SunSpec Compliant)					
Weight (kg)	20.5	24.0	24.0	24.0	26.0	26.0
Dimension (W × H × D mm)	415 × 511 × 175					
Noise Emission (dB)	<25	<25	<25	<25	<50	<50
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (2.5 ~ 4mm ²)					
AC Connector	OT Terminal	OT Terminal	OT Terminal	OT Terminal	OT Terminal	OT Terminal
Country of Manufacture	China	China	China	China	China	China

*: Optional functions are purchased separately.

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