



# GEP 4-20kW

Three-phase | 2 MPPTs

GEP4.0-3-10

GEP5.0-3-10

GEP6.0-3-10

GEP8.0-3-10

GEP10-3-10

GEP12-3-10

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

- Regains pleasant indoor living space with excellent noise control: 4-10kW <25dB
- 24h real-time consumption monitoring\*

Intelligent safety features and unmatched efficiency place this model into a league of its own. This inverter is a perfect choice for small business needs and residential use applications, providing a unique competitive edge with the capability of oversizing, efficiency, and compatibility with the latest high power & bifacial modules. The latest and most advanced safety features intelligently integrated for maximum security bring you peace of mind. The modular design makes O&M much easier, providing upgraded safety and reliability. Welcome to the future of intelligent energy. Say hello to GEP 4-20kW.



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2 MPPTs | Three-phase

Technical Data	GEP4.0-3-10	GEP5.0-3-10	GEP6.0-3-10	GEP8.0-3-10	GEP10-3-10	GEP12-3-10	GEP15-3-10	GEP20-3-10
<b>Input</b>								
Max. Input Voltage (V)	1100	1100	1100	1100	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	140 ~ 950	140 ~ 950	140 ~ 950	140 ~ 950	140 ~ 950	140 ~ 950	140 ~ 950	140 ~ 950
Start-up Voltage (V)	180	180	180	180	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620	620	620	620	620
Max. Input Current per MPPT (A)	15	15	15	15	15	30	30	30
Max. Short Circuit Current per MPPT (A)	18.7	18.7	18.7	18.7	18.7	37.5	37.5	37.5
Number of MPP Trackers	2	2	2	2	2	2	2	2
Number of Strings per MPPT	1	1	1	1	1	2	2	2
<b>Output</b>								
Nominal Output Power (W)	4000	5000	6000	8000	10000	12000	15000	20000
Nominal Output Apparent Power (VA)	4000	5000	6000	8000	10000	12000	15000	20000
Max. AC Active Power (W)	4400	5500	6600	8800	11000	13200	16500	22000
Max. AC Apparent Power (VA)	4400	5500	6600	8800	11000	13200	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	50 / 60	50 / 60
Max. Output Current (A)	6.4	8.0	9.6	12.8	16.0	19.1	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%	<3%	<3%
<b>Efficiency</b>								
Max. Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%	98.4%	98.4%	98.4%
European Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.8%	97.8%	97.8%
<b>Protection</b>								
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	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	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
<b>General Data</b>								
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60	-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%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m) <sup>1</sup>	4000	4000	4000	4000	4000	4000	4000	4000
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	20.5	20.5	20.5	20.5	23.5	26.0	26.0
Dimension (W × H × D mm)	415 × 511 × 175							
Noise Emission (dB)	<25	<25	<25	<25	<25	<50	<50	<50
Topology	Non-isolated							
Self-consumption at Night (W)	<1	<1	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (2.5 ~ 4mm <sup>2</sup> )							
AC Connector	OT Terminal							

<sup>1</sup>: For Australia Max. Operating Altitude (m) is 3000.

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