



# 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

 Max. 15A per String

 AFCI & RSD Optional

 Quiet Operation

 200% DC Oversizing

 Exchangeable Type II SPD (DC side)

 Export Power Control

Intelligent safety features and unmatched efficiency place this model into a league of its own. This inverter is capable of 200% DC oversizing and can reach 98.4% max efficiency, which gives it a unique competitive edge. With 15A max. input current per string, it is compatible with the latest high power & bifacial modules. The latest and most advanced safety features are intelligently integrated for maximum security and peace of mind while optional AFCI & RSD give users more choice and flexibility. The modular design of type II surge protector on the DC side 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)	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
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	15/15	15/15	15/15	30/30	30/30	30/30
Max. Short Circuit Current per MPPT (A)	18.7/18.7	18.7/18.7	18.7/18.7	18.7/18.7	18.7/18.7	37.5/37.5	37.5/37.5	37.5/37.5
Number of MPPTs	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)	4,000	5,000	6,000	8,000	10,000	12,000	15,000	20,000
Max. AC Active Power (W)	4,400	5,500	6,600	8,800	11,000	13,200	16,500	22,000
Max. AC Apparent Power (VA)	4,400	5,500	6,600	8,800	11,000	13,200	16,500	22,000
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	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
Output 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>								
DC Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC 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 Arrester	Type II	Type II	Type II	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	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)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Natural Convection					Fan Cooling		
Display	LED; LCD (Optional); WiFi+APP/Bluetooth+APP							
Communication	RS485/WiFi/LAN/4G							
Weight (Kg)	20.5	20.5	20.5	20.5	20.5	23.5	26	26
Dimension (W × H × D mm)	415 × 511 × 175					415 × 511 × 198		
Topology	Transformerless							
Night Power Consumption (W)	<1	<1	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65

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