



GEP 100-120kW

Three-phase | Up to 12 MPPTs

GEP100-10

GEP110-10

GEP120-10



High Power Generation

- Max. 15A Input per string
- Compatibility with high-power modules



Maximum Safety

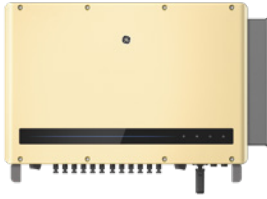
- AFCI optional for safest solar power*
- IP66 and C5 protection optional*



Intelligent O&M

- String Level Monitoring
- Easy and quick setup via Bluetooth

The GEP 100-120kW Series is designed for C&I and small utility projects, to provide the competitive edge in efficiency for renewable energy sources. Featuring up to 12 MPPTs, oversizing capabilities and compatibility with the latest high power & bifacial modules, the GEP 100-120kW Series offers the lowest levelised cost of electricity (LCOE). The series also takes safety to the maximum level, in complying with the strictest industry standards in the toughest Australian climate conditions.



GEP 100-120kW

Up to 12 MPPTs | Three-phase

Technical Data	GEP100-10	GEP110-10	GEP120-10
Input			
Max. Input Power (kW)	150	165	180
Max. Input Voltage (V)	1100	1100	1100
MPPT Operating Voltage Range (V)	180 ~ 1000	180 ~ 1000	180 ~ 1000
Start-up Voltage (V)	200	200	200
Nominal Input Voltage (V)	600	600	600
Max. Input Current per MPPT (A)	30	30	30
Max. Short Circuit Current per MPPT (A)	45	45	45
Number of MPP Trackers	10	12	12
Number of Strings per MPPT	2	2	2
Output			
Nominal Output Power (kW)	99.99	110	120
Nominal Output Apparent Power (kVA)	99.99	110	120
Max. AC Active Power (kW)	99.99	121	132
Max. AC Apparent Power (kVA)	99.99	121	132
Nominal Output Voltage (V)	400, 3L / N / PE or 3L / PE		
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	167.0	175.5	191.3
Power Factor	~1(Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
European Efficiency	98.3%	98.3%	98.3%
Protection			
PV String Current Monitoring	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated
DC Surge Protection	Type II (Type I Optional)		
AC Surge Protection	Type II (Type I Optional)		
AFCI	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional
General Data			
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60	-30 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	5000 (>4000 derating)		
Cooling Method	Smart Fan Cooling		
User Interface	LED, LCD (Optional), WLAN + APP		
Communication	RS485, WiFi or 4G (Optional)		
Communication Protocols	Modbus-RTU (SunSpec Compliant)		
Weight (kg)	93.5	98.5	98.5
Dimension (W × H × D mm)	1008 × 678 × 343		
Topology	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<2	<2	<2
Ingress Protection Rating	IP66	IP66	IP66
DC Connector	MC4(4 ~ 6mm ²)		
AC Connector	OT / DT terminal (Max. 300mm ²)		
Country of Manufacture	China	China	China

*: Optional functions or devices are purchased separately.

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