



# GEP 100-136kW

Three-phase | Up to 12 MPPTs

GEP100-10

GEP110-10

GEP120-10

GEP136-H-10



## High Power Generation

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



## Maximum Safety

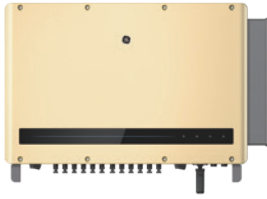
- AFCI optional for safest solar power\*
- IP66 and optional C5 protection



## Intelligent O&M

- Power line communication\*\*
- Easy and quick setup via Bluetooth

The GEP 100-136kW 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 100-136kW Series offers the lowest levelized cost of electricity (LCOE). The series incorporates its technical strengths for savings and takes safety to the maximum level while complying with the strictest industry standards. Embrace the reliable generation and high return of clean energy with GEP 100-136kW.



# GEP 100-136kW

Up to 12 MPPTs | Three-phase

Technical Data	GEP100-10	GEP110-10	GEP120-10	GEP136-H-10
<b>Input</b>				
Max. Input Voltage (V)	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	180 ~ 1000	180 ~ 1000	180 ~ 1000	180 ~ 1000
Start-up Voltage (V)	200	200	200	200
Nominal Input Voltage (V)	600	600	600	750
Max. Input Current per MPPT (A)	30	30	30	30
Max. Short Circuit Current per MPPT (A)	45	45	45	45
Number of MPP Trackers	10	12	12	12
Number of Strings per MPPT	2	2	2	2
<b>Output</b>				
Nominal Output Power (kW)	100 <sup>1</sup>	110	120	136
Nominal Output Apparent Power (kVA)	100 <sup>1</sup>	110	120	136
Max. AC Active Power (kW)	110 <sup>1</sup>	121	132	150
Max. AC Apparent Power (kVA)	110 <sup>1</sup>	121	132	150
Nominal Output Voltage (V)	400, 3L / N / PE or 3L / PE <sup>2</sup>			500, 3L / PE
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	167.0	175.5	191.3	173.2
Power Factor	~1(Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
<b>Efficiency</b>				
Max. Efficiency	98.6%	98.6%	98.6%	99.0%
European Efficiency	98.3%	98.3%	98.3%	98.5%
<b>Protection</b>				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Switch <sup>3</sup>	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II (Type I Optional)			
AC Surge Protection	Type II (Type I Optional)			
AFCI	Integrated	Integrated	Integrated	Integrated
Remote Shutdown	Optional	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional	Optional
<b>General Data</b>				
Operating Temperature Range (°C)	-30 ~ +60			
Relative Humidity	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)			RS485, WiFi or 4G or PLC (Optional)
Communication Protocols	Modbus-RTU (SunSpec Compliant)			
Weight (kg)	93.5	98.5	98.5	98.5
Dimension (W × H × D mm)	1008 × 678 × 343			
Topology	Non-isolated			
Self-consumption at Night (W)	<2			
Ingress Protection Rating	IP66			
DC Connector	MC4 (4 ~ 6mm <sup>2</sup> )			
AC Connector	OT / DT terminal (Max.300mm <sup>2</sup> )			

\*1: For Australia is 99.99kW / kVA.

\*2: For Brazil Nominal Output Voltage (V): 380, 3L / N / PE or 3L / PE.

\*3: For Australia DC Switch is PV2 (integrated).

\*: Optional functions or devices are purchased separately.

\*\*: For GEP136-H-10 only.

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