GEP 50-60kW

Three-phase | Up to 6 MPPTs

GEP50-10 | GEP60-10

High Power Generation

- Up to 6 MPPTs
- Full-load running at 50°C

Maximum Safety

- Type I SPD optional for DC*
- Input reverse polarity protection

Intelligent O&M

- Precise string current monitoring
- PID recovery optional*

The GEP 50-60kW has been designed to meet the increasing expectations from the C&I segment. The GEP 50-60kW offers up to 6 MPPTs and is the ultimate solution for commercial rooftop PV systems. This future-ready machine comes with film capacitor and fuse-free design, optional Type I surge protection on the DC side, ensuring faster trouble-shooting, longer life-span and maximum safety. The GEP 50-60kW Series requires minimum O&M and offers an improved overall user experience for maximum comfort and minimum operation. All these intelligent features make the GEP 50-60kW one of the most future-proof inverters in its class.

GEP 50-60kW

Up to 6 MPPTs | Three-phase

Technical Data	GEP50-10	GEP60-10
Input		
Max. Input Voltage (V)	1100	1100
MPPT Operating Voltage Range (V)	200 ~ 950	200 ~ 950
Start-up Voltage (V)	180	180
Nominal Input Voltage (V)	600	600
Max. Input Current per MPPT (A)	30	30
Max. Short Circuit Current per MPPT (A)	37.5	37.5
Number of MPP Trackers	5	6
Number of Strings per MPPT	2	2
Output		
Nominal Output Power (kW)	50	60
Nominal Output Apparent Power (kVA)	50	60
Max. AC Active Power (kW)	55[*1]	66[*1]
Max. AC Apparent Power (kVA)	55[*2]	66[*2]
Nominal Output Voltage (V)	400[*3], 3L / N / PE or 3L / PE	
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60
Max. Output Current (A)	80.0	96.0
Power Factor	~1 (adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	<3%
Efficiency		
Max. Efficiency	98.3%	98.3%
European Efficiency	98.0%	98.0%
Protection		
PV String Current Monitoring	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated
DC Switch	Integrated	Integrated
DC Surge Protection	Type II (Type I Optional)	
AC Surge Protection	Type II	Type II
AFCI	Optional	Optional
Remote Shutdown	Optional	Optional
PID Recovery	Optional	Optional
General Data		
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	3000	3000
Cooling Method	Smart Fan Cooling	
User Interface	LED, LCD (Optional), WLAN + APP	
Communication	RS485, WiFi or PLC (Optional)[*4]	
Communication Protocols	Modbus-RTU (SunSpec Compliant)	
Weight (kg)	55.0	55.0
Dimension (W × H × D mm)	520 × 660 × 220	
Noise Emission (dB)	<65	<65
Topology	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1
Ingress Protection Rating	IP65	IP65
DC Connector	MC4 (4 ~ 6mm²)	
AC Connector	OT / DT Terminal (Max.25mm²)	

*1: For Brazil Max. AC Active Power (W): GEP50-10 is 50000W, GEP60-10 is 60000W.
*2: For Brazil Max. AC Apparent Power (VA): GEP50-10 is 50000W, GEP60-10 is 60000W.
*3: For Brazil Nominal Output Voltage (V) is 380, 3L / N / PE or 3L / PE.
*4: For Brazil Communication is RS485, WiFi, USB, PLC (Optional).
*: Optional functions are purchased separately.