



GEP 29.9-60kW

Three-phase | Up to 6 MPPTs

GEP29.9-10

GEP50-10

GEP60-10



High Power Generation

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



Maximum Safety

- Type II SPD for both AC & DC
- Optional AFCI protecting circuits from arc faults*



Intelligent O&M

- Precise string current monitoring
- PID recovery optional*

The GEP 29.9-60kW has been designed to meet the increasing expectations from the Commercial sector. The GEP 29.9-60kW offers up to 6 MPPTs and is the ultimate solution for commercial rooftop PV systems. This future-ready machine uses a 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 29.9-60kW Series requires minimum O&M and offers an improved overall user experience. These intelligent features make the GEP 29.9-60kW one of the most future-proof inverters in its class.



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Up to 6 MPPTs | Three-phase

Technical Data	GEP29.9-10	GEP50-10	GEP60-10
Input			
Max. Input Power (kW)	45	75	90
Max. Input Voltage (V)	1100	1100	1100
MPPT Operating Voltage Range (V)	200 ~ 950	200 ~ 950	200 ~ 950
Start-up Voltage (V)	180	180	180
Nominal Input Voltage (V)	600	600	600
Max. Input Current per MPPT (A)	30	30	30
Max. Short Circuit Current per MPPT (A)	37.5	37.5	37.5
Number of MPP Trackers	3	5	6
Number of Strings per MPPT	2	2	2
Output			
Nominal Output Power (kW)	29.9	50	60
Nominal Output Apparent Power (kVA)	29.9	50	60
Max. AC Active Power (kW)	29.9	55	66
Max. AC Apparent Power (kVA)	29.9	55	66
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)	43.3	80.0	96.0
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.3%	98.3%	98.3%
European Efficiency	98.0%	98.0%	98.0%
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 II (Type I Optional)	
AC Surge Protection	Type II	Type II	Type II
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)	3000	3000	3000
Cooling Method	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling
User Interface	LED, LCD (Optional), WLAN + APP		
Communication	RS485, WiFi or PLC(Optional)		
Communication Protocols	Modbus-RTU (SunSpec Compliant)		
Weight (kg)	40.0	55.0	55.0
Dimension (W × H × D mm)	480 × 590 × 200	520 × 660 × 220	
Noise Emission (dB)	<60	<60	<60
Topology	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65
DC Connector	MC4(4 ~ 6mm ²)	MC4(4 ~ 6mm ²)	MC4(4 ~ 6mm ²)
AC Connector	OT / DT Terminal (Max.25mm ²)		
Country of Manufacture	China	China	China

* Optional functions are purchased separately.

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