



GEP 29.9kW

Three-phase | 3 MPPTs

GEP29.9-10



High Power Generation

- Max. 15A input per string
- 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 29.9kW offers 3 MPPTs and has been designed to meet commercial requirements. This future-ready machine comes with film capacitor, fuse-free design, Type II surge protection on both DC & AC sides, ensuring longer life-span and maximum safety for rooftop PV systems. The GEP 29.9kW requires minimum operation and maintenance and offers an improved overall user experience. All these intelligent features makes the GEP 29.9kW one of the most future-proof inverters in its class.



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3 MPPTs | Three-phase

Technical Data		GEP29.9-10
Input		
Max. Input Power (kW)		45
Max. Input Voltage (V)		1100
MPPT Operating Voltage Range (V)		200 ~ 950
Start-up Voltage (V)		180
Nominal Input Voltage (V)		600
Max. Input Current per MPPT (A)		30
Max. Short Circuit Current per MPPT (A)		37.5
Number of MPP Trackers		3
Number of Strings per MPPT		2
Output		
Nominal Output Power (kW)		29.9
Nominal Output Apparent Power (kVA)		29.9
Max. AC Active Power (kW)		29.9
Max. AC Apparent Power (kVA)		29.9
Nominal Output Voltage (V)		400, 3L / N / PE or 3L / PE
Nominal AC Grid Frequency (Hz)		50 / 60
Max. Output Current (A)		43.3
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)
Max. Total Harmonic Distortion		<3%
Efficiency		
Max. Efficiency		98.3%
European Efficiency		98.0%
Protection		
PV String Current Monitoring		Integrated
PV Insulation Resistance Detection		Integrated
Residual Current Monitoring		Integrated
PV Reverse Polarity Protection		Integrated
Anti-islanding Protection		Integrated
AC Overcurrent Protection		Integrated
AC Short Circuit Protection		Integrated
AC Overvoltage Protection		Integrated
DC Switch		Integrated
DC Surge Protection		Type II
AC Surge Protection		Type II
AFCI		Optional
Remote Shutdown		Optional
PID Recovery		Optional
General Data		
Operating Temperature Range (°C)		-30 ~ +60
Relative Humidity		0 ~ 100%
Max. Operating Altitude (m)		3000
Cooling Method		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
Dimension (W × H × D mm)		480 × 590 × 200
Noise Emission (dB)		<60
Topology		Non-isolated
Self-consumption at Night (W)		<1
Ingress Protection Rating		IP65
DC Connector		MC4 (4 ~ 6mm ²)
AC Connector		OT / DT Terminal (Max.25mm ²)
Country of Manufacture		China

* Optional functions are purchased separately.

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