



GEP 3.6-6kW

Single-phase | 2 MPPTs

GEP3.6-1-30

GEP4.2-1-30

GEP5.0-1-30

GEP6.0-1-30



Intelligent Control & Monitoring

- 24/7 load consumption monitoring
- Dry contact connection



Safety First on Your Roof

- Optional AFCI ensures system safety*
- Type II surge protection & failure alarm



High Power Generation

- Max. 16A input current per string
- 150% DC input oversizing & 110% AC output overloading

The GEP 3.6-6kW is an ideal choice for homeowners thanks to its elegant aesthetic design and super quiet operation (noise below 25dB). Integrated with 16A DC input and 150% oversizing capabilities, the series is compatible with all types of PV panels while brings you optimized solar output. The inverter also features Type II Surge Protection Device (SPD) on both DC & AC sides and optional AFCI to protect the system from electrical fire and lightning hazards in extreme conditions. All these advanced features are intelligently packed in this compact albeit powerful series.



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2 MPPTs | Single-phase

Technical Data	GEP3.6-1-30	GEP4.2-1-30	GEP5.0-1-30	GEP6.0-1-30
Input				
Max. Input Voltage (V)	600	600	600	600
MPPT Operating Voltage Range (V)	40 ~ 560	40 ~ 560	40 ~ 560	40 ~ 560
Start-up Voltage (V)	50	50	50	50
Nominal Input Voltage (V)	360	360	360	360
Max. Input Current per MPPT (A)	16	16	16	16
Max. Short Circuit Current per MPPT (A)	23	23	23	23
Number of MPP Trackers	2	2	2	2
Number of Strings per MPPT	1	1	1	1
Output				
Nominal Output Power (W)	3600	4200	5000	6000
Nominal Output Apparent Power (VA)	3600	4200	5000	6000
Max. AC Active Power (W) ¹	3960	4620	5500	6600
Max. AC Apparent Power (VA) ¹	3960	4620	5500	6600
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A) ¹	17.3	20.1	24.0	28.8
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	97.9%	97.9%	97.9%	97.9%
European Efficiency	97.0%	97.2%	97.3%	97.4%
Protection				
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	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II
AC Surge Protection	Type II	Type II	Type II	Type II
AFCI	Optional	Optional	Optional	Optional
Emergency Power Off	Optional	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	Optional
General Data				
Operating Temperature Range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m) ²	4000	4000	4000	4000
Cooling Method	Natural Convection	Natural Convection	Natural Convection	Natural Convection
User Interface	LED, LCD, WLAN + APP			
Communication	WiFi, RS485 or LAN or 4G (Optional)			
Communication Protocols	Modbus-RTU (SunSpec Compliant)			
Weight (kg)	13.1	13.1	13.1	13.7
Dimension (W × H × D mm)	350 × 410 × 143	350 × 410 × 143	350 × 410 × 143	350 × 410 × 143
Noise Emission (dB)	<25	<25	<25	<25
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1
Ingress Protection Rating	IP66	IP66	IP66	IP66
DC Connector	MC4 (4 ~ 6mm ²)			
AC Connector	Plug and play connector (Max.6mm ²)			

*1: For Netherland Max. AC Active Power (W) and Max. AC Apparent Power (VA) GEP3.6-1-30 is 3600, GEP4.2-1-30 is 4200; Max. Output Current (A) and Nominal Output Current (A) EP3.6-1-30 is 15.7, GEP4.2-1-30 is 18.3.

*2: For Australia Max. Operating Altitude (m) is 3000; Nominal Output Current (A) EP3.6-1-30 is 17.3, GEP4.2-1-30 is 20.1, GEP5.0-1-30 is 24, GEP6.0-1-30 is 28.8.

*: Optional functions or devices are purchased separately.

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