



GEP 5-11.4kW

Split-phase | Up to 3 MPPTs

GEP5.0-1-US30

GEP6.0-1-US30

GEP7.7-1-US30

GEP9.6-1-US30

GEP11.4-1-US30



Optimal Safety and Compliance

- Integrated AFCI & Rapid Shutdown
- DC Type II SPD & SPD failure alarm



Maximum Energy Generation

- Built-in optimization eliminates the need for traditional optimizers
- 160% DC input oversizing for maximum power production



Smart Control & Monitoring

- Power export limit
- 24-hour load consumption monitoring

The GEP Series is a high-quality PV solution engineered to meet the demanding needs of U.S. homeowners. Allowing a maximum of 16A input current per string and supporting up to 160% DC oversizing, this product was created for long-term, trouble-free lifetime operation with maximum energy production. Built-in optimization effortlessly addresses complex rooftops and shaded areas without the need for traditional module-level optimizers, which add cost and complexity to the system.



GEP 5-11.4kW

Split-phase I Up to 3 MPPTs

Technical Data	GEP5.0-1-US30	GEP6.0-1-US30	GEP7.7-1-US30	GEP9.6-1-US30	GEP11.4-1-US30
Input					
Max. Input Power (W)	8000	9600	12320	15360	18240
Max. Input Voltage (V) ¹	600	600	600	600	600
MPPT Voltage Range at Nominal Power (V) (at 240V)	165 ~ 500	198 ~ 500	170 ~ 500	210 ~ 500	250 ~ 500
MPPT Voltage Range at Nominal Power (V) (at 208V)	143 ~ 500	171 ~ 500	150 ~ 500	182 ~ 500	217 ~ 500
Start-up Voltage (V)	80	80	80	80	80
Nominal Input Voltage (V) (at 240V)	380	380	380	380	380
Nominal Input Voltage (V) (at 208V)	330	330	330	330	330
Max. Input Current per MPPT (A)	16	16	16	16	16
Max. Short Circuit Current per MPPT (A)	23.4	23.4	23.4	23.4	23.4
Number of MPP Trackers	2	2	3	3	3
Number of Strings per MPPT	1	1	1	1	1
Output					
Nominal Output Power (W) (at 240V)	5000	6000	7680	9600	11400
Nominal Output Power (W) (at 208V)	4333	5200	6650	8320	9880
Nominal Output Apparent Power (VA) (at 240V)	5000	6000	7680	9600	11400
Nominal Output Apparent Power (VA) (at 208V)	4333	5200	6650	8320	9880
Max. AC Active Power (W) (at 240V)	5000	6000	7680	9600	11400
Max. AC Active Power (W) (at 208V)	4333	5200	6650	8320	9880
Max. AC Apparent Power (VA) (at 240V)	5000	6000	7680	9600	11400
Max. AC Apparent Power (VA) (at 208V)	4333	5200	6650	8320	9880
Nominal Output Voltage (V)	240 / 208	240 / 208	240 / 208	240 / 208	240 / 208
Nominal AC Grid Frequency (Hz)	60	60	60	60	60
Max. Output Current (A)	20.8	25.0	32.0	40.0	47.5
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	97.5%	97.5%	97.5%	97.8%	97.8%
CEC Efficiency (at 240V)	96.5%	96.5%	96.5%	97.0%	97.0%
CEC Efficiency (at 208V)	96.0%	96.0%	96.5%	96.5%	96.5%
Protection					
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II	Type II
AC Surge Protection	Type III (Type II Optional)				
AFCI	Integrated	Integrated	Integrated	Integrated	Integrated
Rapid Shutdown	Integrated	Integrated	Integrated	Integrated	Integrated
General Data					
Operating Temperature Range (°F)	-13 ~ +140 (-25 ~ +60°C)				
Derating temperature (°F)	113 (45°C)				
Storage Temperature Range (°F)	-40 ~ +158 (-40 ~ +70°C)				
Relative Humidity	0 ~ 95%				
Max. Operating Altitude (ft)	9842 (3000m)				
Cooling Method	Natural Convection				
User Interface	LED, WLAN + APP				
Communication	RS485, WiFi or Bluetooth or 4G or LAN (Optional)				
Communication Protocols	Modbus-RTU (SunSpec Compliant)				
Weight (lb)	51.8 (23.0kg)	51.8 (23.0kg)	55.1 (25.0kg)	55.1 (25.0kg)	55.1 (25.0kg)
Dimension (W × H × D in)	19.2 × 26.4 × 7.8 (487 × 670 × 199mm)				
Noise Emission (dB)	<25	<25	<35	<35	<35
Topology	Non-isolated				
Self-consumption at Night (W)	<5	<5	<5	<5	<5
Ingress Protection Rating	Type 4X (IP66)				

*1: When configuring PV module, it is recommended that the open circuit voltage of each string of connected PV module be less than 525V, otherwise it will lead to derating.

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