



# GEP 29.9-60kW

Up to 6 MPPT | Three-phase

GEP29.9-10

GEP50-10

GEP60-10

The GEP 29.9-60kW has been designed to meet the increasing expectations from the C&I segment. The GEP 29.9-60kW offers up to 6 MPPT and is the ultimate solution for commercial rooftop PV systems. This future ready machine comes with incorporated I-V curve diagnosis, film capacitor and fuse-free design, optional anti-PID function, Type I surge protection on the DC side and AC terminal temperature detection, ensuring faster trouble-shooting, longer life-span and maximum safety. The GEP 29.9-60kW requires minimum O&M and offers an improved overall user experience for maximum comfort and minimum operation. All these intelligent features make the GEP 29.9-60kW one of the most future-proof inverters in its class.



**Inbuilt DC Isolator**



**Inbuilt Export Control**



**13A Per String**



**Upgraded Safety**



**Full-load Running at 50°C**



**IV-Curve Diagnosis**



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Technical Data	GEP29.9-10	GEP50-10	GEP60-10
<b>PV String Input Data</b>			
Max. DC Input Power (W)	45000	75000	90000
Max. DC Input Voltage (V)	1100	1100	1100
MPPT Range (V)	200~950	200~950	200~950
Start-up Voltage (V)	180	180	180
Nominal DC Input Voltage (V)	600	600	600
PV Input Operating Voltage range (V)	180~1100	180~1100	180~1100
Max. Inverter Backfeed Current To The array (A)	0	0	0
Max. Input Current (A)	26/26/26	26/26/26/26/26	26/26/26/26/26/26
Max. Short Current (A)	33/33/33	33/33/33/33/33	33/33/33/33/33/33
No. of MPP Trackers	3	5	6
No. of Input Strings per Tracker	2/2/2	2/2/2/2/2	2/2/2/2/2/2
<b>AC Output Data</b>			
Nominal Output Power (W)	29900	50000	60000
Max. Output Power (W)	29900	55000	66000
Max. Output Apparent Power (VA)	29900	55000	66000
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	43.3	80	96
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%
Current (inrush)	60	50	50
Maximum Output Fault Current	160	300	300
Maximum Output Over Current Protection (A)	109	195	195
<b>Efficiency</b>			
Max. Efficiency	98.3%	98.3%	98.3%
European Efficiency	98%	98%	98%
<b>Protection</b>			
Anti-islanding Protection	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated
PV String Current Monitoring	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional
DC Surge Protection	Type II	Type II (Type I optional)	Type II (Type I optional)
AC Surge Protection	Type II	Type II	Type II
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated
Protective Class	Class I	Class I	Class I
Decisive Voltage Classification (DVC)	C	C	C
<b>General Data</b>			
Operating Temperature Range (°C)	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%
Operating Altitude (m)	≤3000	≤3000	≤3000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling
User Interface	LCD&LED or APP&LED	LCD&LED or APP&LED	LCD&LED or APP&LED
Communication	RS485, WiFi, PLC (Optional)	RS485, WiFi, PLC (Optional)	RS485, WiFi, PLC (Optional)
Weight (kg)	40	55	55
Dimensions (W × H × D mm)	480 × 590 × 200	520 × 660 × 220	520 × 660 × 220
Protection Degree	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless

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