



GEH 5-10 kW

Three phase | 2 MPPTs

Incessant Power Supply

- Full backup capacity up to 10 kW
- UPS-level switching

High Power Generation

- Max. 16A DC input per string
- Up to 150% DC oversizing

Maximum Safety

- Type II SPD on DC side
- IP66 Protection



The GEH series is a three-phase hybrid inverter that has a power capacity ranging from 5 kW to 10 kW. Designed for large residential and small-scale commercial and industrial applications, the series provides a competitive edge with up to 16A DC input for each string and up to 150% DC oversizing for maximized energy production.

100% unbalanced output is supported to maximize self-consumption and increase load flexibility on each phase.

It also provides the peak shaving capability to reduce the peak demand on the electricity network, achieving more efficiency and significant cost savings. When the grid is compromised, UPS-level switching allows the inverter to switch to the back-up mode in less than 10ms. Loads connected to the back-up stay powered on and ensure the safety of your electrical appliances. Furthermore, this product comes with advanced Type II Surge Protection Device (SPD) on DC side, integrated DC switch and remote shutdown, enhancing operational safety on all roofs.

Technical Data	GEH 5.0-3U-10	GEH 6.5-3U-10	GEH 8.0-3U-10	GEH 10-3U-10
Battery Input Data				
Battery Type	Li-Ion			
Nominal Battery Voltage (V)	500			
Battery Voltage Range (V)	180 ~ 600			
Start-up Voltage (V)	180			
Number of Battery Input	1			
Max. Continuous Charging Current (A)	25			
Max. Continuous Discharging Current (A)	25			
Max. Charging Power (W)	7500	8450	9600	10000
Max. Discharging Power (W)	7500	8450	9600	10000
PV String Input Data				
Max. Input Power (W)	7500	9700	12000	15000
Max. Input Voltage (V) ^{*1}	1000			
MPPT Operating Voltage Range (V) ^{*2}	200 ~ 850			
Start-up Voltage (V)	180			
Nominal Input Voltage (V)	620			
Max. Input Current per MPPT (A)	16			
Max. Short Circuit Current per MPPT (A)	21.2			
Number of MPP Trackers	2			
Number of Strings per MPPT	1			
AC Output Data (On-grid)				
Nominal Output Power (W)	5000	6500	8000	10000
Nominal Apparent Power Output to Utility Grid (VA)	5000	6500	8000	10000
Max. Apparent Power Output to Utility Grid (VA) ^{*2*4}	5500	7150	8800	11000
Max. Apparent Power from Utility Grid (VA)	10000	13000	15000	
Nominal Output Voltage (V)	400 / 380, 3L / N / PE			
Output Voltage Range (V)	0 ~ 300			
Nominal AC Grid Frequency (Hz)	50 / 60			
AC Grid Frequency Range (Hz)	45 ~ 65			
Max. AC Current Output to Utility Grid (A)	8.5	10.8	13.5	16.5
Max. AC Current From Utility Grid (A)	15.2	19.7	22.7	
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
AC Output Data (Back-up)				
Back-up Nominal Apparent Power (VA)	5000	6500	8000	10000
Max. Output Apparent Power (VA) ^{*3}	5000 (10000@60sec)	6500 (13000@60sec)	8000 (16000@60sec)	10000 (16500@60sec)
Max. Output Apparent Power with Grid (VA) ^{*3}	5000	6500	8000	10000
Max. Output Current (A)	8.5	10.8	13.5	16.5
Nominal Output Voltage (V)	400 / 380			
Nominal Output Frequency (Hz)	50 / 60			
Output THDv (@Linear Load)	<3%			
PV String Input Data				
Max. Efficiency	98.0%		98.2%	
European Efficiency	97.2%		97.5%	
Max. Battery to AC Efficiency	97.5%			
MPPT Efficiency	99.9%			
Protection				
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 III			
Remote Shutdown	Integrated			
General Data				
Operating Temperature Range (°C)	-35 ~ +60			
Relative Humidity	0 ~ 95%			
Max. Operating Altitude (m)	4000			
Cooling Method	Natural Convection			
User Interface	LED, APP			
Communication with BMS ^{*5}	RS485, CAN			
Communication with Meter	RS485			
Communication with Portal	WiFi / WiFi + LAN (Optional) / 4G (Optional)			
Weight (kg)	24.0			
Dimension (W x H x D mm)	415 x 516 x 180			
Topology	Non-isolated			
Self-consumption at Night (W) ^{*6}	<15			
Ingress Protection Rating	IP66			
Mounting Method	Wall Mounted			

*1: For 1000V system; Maximum operating voltage is 950V. *2: According to the local grid regulation. *3: Can be reached only if PV and battery power is enough. *4: For Chile Max. Apparent Power Output to Utility Grid (VA) and Max. Output Power (W): GEH5.0-3U-10 is 5000; GEH6.5-3U-10 is 6500; GEH8.0-3U-10 is 8000; GEH10-3U-10 is 10000. *5: CAN communication is configured default. If RS485 communication is used, please replace the corresponding communication line. *6: No Back-up Output.



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