



GEH 5-10kW

Single-phase Hybrid | Up to 4 MPPTs

GEH5.0-1U-10

GEH8.6-1U-10

GEH10-1U-10



Incessant Power Supply

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



High Power Generation

- Up to 4 MPPTs
- Up to 150% DC oversizing



Maximum Safety

- AC bypass switch
- AFCI & RSD for system safety*

The GEH series is a unique single-phase hybrid inverter that offers up to four MPPTs, is compatible with high voltage (80-495V) batteries and has a power capacity ranging from 5 kW to 10 kW. Homeowners can now experience the ultimate solution for maximising generation and self-consumption in comfort and security. Intelligent mechanisms are timely activated to ensure power supply to critical loads when most needed. AFCI (Arc-fault current interrupter) and rapid shutdown options likewise ensure the safety of the whole PV system, offering freedom and security all in one.

<http://au.gesolarinverter.com>



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Up to 4 MPPTs | Single-phase Hybrid

Technical Data	GEH5.0-1U-10	GEH8.6-1U-10	GEH10-1U-10 ^{*5}
Battery Input Data			
Battery Type	Li-Ion (BYD HVM&HVS, LG RESU 10H-Type R&Prime, RESU 16H Prime, GOODWE LX S-H)		
Nominal Battery Voltage (V)	350		
Battery Voltage Range (V) ^{*1}	80~495		
Max. Continuous Charging Current (A)	50		
Max. Continuous Discharging Current (A)	50		
Max Charge Power (W)	5000	8600	9600
Max Discharge Power (W)	5250	9030	10080
PV String Input Data			
Max. Input Power (W)	7500	12900	15000
Max. Input Voltage (V) ^{*2}	600		
MPPT Operating Voltage Range (V) ^{*3}	80~550		
Start-up Voltage (V)	95		
Nominal Input Voltage (V)	380		
Max. Input Current per MPPT (A)	13/13/13	13/13/13/13	
Max. Short Circuit Current per MPPT (A)	16.3/16.3/16.3	16.3/16.3/16.3/16.3	
Number of MPP Trackers	3	4	
Number of Strings per MPPT	1/1/1	1/1/1/1	
AC Output Data (On-grid)			
Nominal Output Voltage (V)	230		
Nominal AC Grid Frequency (Hz)	50		
Nominal Apparent Power Output to Utility Grid (VA)	5000	8600	9500 (@220Vac); 10000 (@230Vac)
Max. Apparent Power Output to Utility Grid (VA) ^{*4}	5000	8600	9500 (@220Vac); 10000 (@230Vac)
Max. Apparent Power from Utility Grid (VA)	6000	10000	10000
Max. AC Current Output to Utility Grid (A) ^{*4}	23	39	43.5
Max. AC Current From Utility Grid (A)	27	45.5	45.5
Max. Output Overcurrent Protection (A)	56.5	95	95
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%		
AC Output Data (Back-up)			
Nominal Output Voltage (V)	230 (±2%)		
Nominal Output Frequency (Hz)	50 (±0.2%)		
Output THDv (@Linear Load)	<3%		
Max. Output Apparent Power (VA)	5000(6000@60sec)	8600(10320@60sec)	9500(@220Vac); 10000(@230Vac)(12000@60sec)
Max. Output Current (A)	23	39	43.5
Efficiency			
Max. Efficiency	97.6%		
European Efficiency	97.0%		
MPPT Efficiency	99.9%		
Max. Battery to AC Efficiency	96.5%		
Protection			
AFCI	Optional		
Rapid Shutdown	Optional		
DC&AC Switch	Integrated		
DC Surge Protection	Type II		
AC Surge Protection	Type II		
Anti-islanding Protection	Integrated		
PV Reverse Polarity Protection	Integrated		
PV Insulation Resistance Detection	Integrated		
Residual Current Monitoring	Integrated		
AC Overcurrent Protection	Integrated		
AC Short Circuit Protection	Integrated		
AC Overvoltage Protection	Integrated		
Battery Reverse Polarity Protection	Integrated		
General Data			
Operating Temperature Range (°C)	-35~60		
Relative Humidity	0~95%		
Max. Operating Altitude (m)	≤4000		
Cooling Method	Intelligent Fan		
Noise Emission (dB)	<50		
Display	LED & APP (WiFi & Bluetooth)		
Communication with BMS	RS485; CAN		
Communication with Meter	RS485		
Communication with Portal	Wi-Fi		
Weight (kg)	28.8	32.3	
Dimensions (W × H × D mm)	415 × 791 × 175		
Mounting Method	Wall Bracket		
Ingress Protection Rating	IP65		
Self-consumption at Night (W)	<20		
Topology	Transformerless		
Country of Manufacture	China		

*1: Battery discharge/charge power limited by voltage.

*2: Inverter will not work when PV input voltage ≥585V.

*3: When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V.

*4: The grid feed in power for AS/NZS 4777.2 is limited to 4950VA & 21.7A.

*5: The model name does not represent the rated power, please refer to the marked parameters for details.

*: Optional functions are purchased separately.

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