

EH Series

Single Phase Hybrid Inverter (HV Battery)



Technical Data		GW3600-EH	GW5000-EH	GW6000-EH
Battery Input Data	Battery Type	Li-Ion		
	Battery Voltage Range(V)	85~460		
	Start-up Voltage (V)	90		
	Max. Charging/Discharging Current (A)	25/25		
	Max. Charging/Discharging Power (W)	3600	5000	6000
	Battery Ready Optional Function	YES	YES	YES
PV String Input Data	Max. DC Input Power (W)	4800	6650	8000
	Max. DC Input Voltage (V)	580		
	MPPT Range (V)	100~550		
	Start-up Voltage (V)	90		
	Min. Feed-in Voltage (V)	100		
	MPPT Range for Full Load (V)	150~550	210~550	250~550
	Nominal DC Input Voltage (V)	380		
	Max. Input Current (A)	12.5/12.5		
	Max. Short Current (A)	15.2/15.2		
	No. of MPP Trackers	2		
No. of Strings per MPP Tracker	1			
AC Output/Input Data (On-grid)	Nominal Apparent Power Output to Utility Grid (VA) ^{*2}	3600	5000	6000
	Max. Apparent Power Output to Utility Grid(VA) ^{*2*5}	3600/3960 ^{*1}	5000/5500 ^{*1}	6000/6600 ^{*1}
	Max. Apparent Power from Utility Grid (VA)	7200 (Charging 3.6kw, back-up output3.6kw)	10000 (Charging 5kw, back-up output 5kw)	12000 (Charging 6kw, back-up output 6kw)
	Nominal Output Voltage (V)	230		
	Nominal Output Frequency (Hz)	50/60		
	Max. AC Current Output to Utility Grid (A) ^{*2}	16/18 ^{*1}	21.7/24 ^{*1}	26.1/28.7 ^{*1}
	Max. AC Current From Utility Grid (A)	32	43.4	52.2
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
	Output THDi (@Nominal Output)	<3%		
Back-up Output Data (Back-up)	Max. Output Apparent Power (VA)	3600	5000	6000
	Peak Output Apparent Power (VA)	4320, 60sec	6000, 60sec	7200, 60sec
	Max. Output Current (A)	15.7	21.7	26.1
	Nominal Output Voltage (V)	230 (±2%)		
	Automatic Switch Time (ms)	<10		
	Nominal Output Frequency (Hz)	50/60 (±0.2%)		
	Output THDv (@Linear Load)	<3%		
Efficiency	PV Max. Efficiency	97.6%		
	PV Europe Efficiency	97.0%		
	PV Max. MPPT Efficiency	99.9%		
	Battery Charged by PV Max. Efficiency	98.0%		
	Battery Charge/Discharge from/to AC Max. Efficiency	96.6%		
Protection	Anti-Islanding Protection	Integrated		
	Battery Input Reverse Polarity Protection	Integrated		
	Insulation Resistor Detection	Integrated		
	Residual Current Monitoring Unit	Integrated		
	Output Over Current Protection	Integrated		
	Grid Output Short Protection	Integrated		
	Output Over Voltage Protection	Integrated		
General Data	Operating Temperature Range (°C)	-35~60		
	Relative Humidity	0~95%		
	Operating Altitude (m)	4000		
	Cooling	Natural Convection		
	Noise (dB)	<35		
	User Interface	LED & APP		
	Communication with BMS ^{*3}	RS485; CAN		
	Communication with Meter	RS485		
	Communication with Portal	Wi-Fi/Ethernet(Optional)		
	Weight (kg)	17		
	Size (Width*Height*Depth mm)	354*433*147		
	Mounting	Wall Bracket		
	Protection Degree	IP65		
Standby Self-Consumption (W) ^{*4}	<10			
Topology	Battery Non-Isolation			

^{*1}: For CEI 0-21.

^{*2}: The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited 4600VA, for AS/NZS 4777.2 is limited 4950VA & 21.7A.

^{*3}: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.

^{*4}: No back-up output.

^{*5}: For Belgium Max. Output Apparent Power (VA): GW3600-EH is 3600; GW5000-EH is 5000; GW6000-EH is 6000.

*: Please visit GoodWe website for the latest certificates.