GOODWE

EH Series

3.6-6kW I Single phase I 2 MPPTs Hybrid ready (HV)

The EH is compatible with high voltage batteries (85-460V) to empower a flexible system design. As the core of reliable electricity supply, EH Series can automatically realize the UPS-level switching to the back-up mode in less than 10ms, ensuring that critical loads experience with no interruption. Being communicative by supporting multiple communication protocols, it allows for smart home integration and maximized system status transparency. It future-proves the extension for your power system by offering a Battery Ready option for users who might wish to acquire a complete energy storage solution eventually. By simply purchasing an activation code, users can easily upgrade EH to a complete energy storage solution.



Smart Control & Monitoring

· <10ms UPS-level switching
· Smart home integration with multi-protocol communications

Friendly & Thoughtful Design

· Fanless cooling for quiet operation
· Pre-wired communication cables

Superb Safety & Reliability

· IP65 ingress protection
· Quality and robust components

Flexible & Adaptable Applications

· Strong backup power supply
· Wide battery voltage range 85~460V

EH Series

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Technical Data	GW3600-EH	GW5000-EH	GW6000-EH
Battery Input Data			
Battery Type	Li-Ion	Li-Ion	Li-Ion
Nominal Battery Voltage (V)	350	350	350
Battery Voltage Range (V)	85 ~ 460	85 ~ 460	85 ~ 460
Max. Continuous Charging Current (A)	25	25	25
Max. Continuous Discharging Current (A)	25	25	25
Max. Charging Power (W)	3600	5000	6000
Max. Discharging Power (W)	3600	5000	6000
PV String Input Data			
Max. Input Power (W)	4800	6650	8000
Max. Input Voltage (V)	580	580	580
MPPT Operating Voltage Range (V)	100 ~ 550	100 ~ 550	100 ~ 550
Start-up Voltage (V)	90	90	90
Nominal Input Voltage (V)	380	380	380
Max. Input Current per MPPT (A)	12.5	12.5	12.5
Max. Short Circuit Current per MPPT (A)	15.2	15.2	15.2
Number of MPP Trackers	2	2	2
Number of Strings per MPPT	1	1	1
AC Output Data (On-grid)			
Nominal Apparent Power Output to Utility Grid (VA)[*1]	3600	5000	6000
Max. Apparent Power Output to Utility Grid (VA)[*1]	3600	5000	6000
Max. Apparent Power from Utility Grid (VA)	7200 (Charging 3.6kw, Backup Output 3.6kw)	10000 (Charging 5kw, Backup Output 5kw)	12000 (Charging 6kW, Backup Output 6kW)
Nominal Output Voltage (V)	230 / 220[*4]	230 / 220[*4]	230 / 220[*4]
Output Voltage Range (V)	0 ~ 300	0 ~ 300	0 ~ 300
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
AC Grid Frequency Range (Hz)	45 ~ 65	45 ~ 65	45 ~ 65
Max. AC Current Output to Utility Grid (A)	16.0	21.7	26.1 / 27.3[*5]
Max. AC Current From Utility Grid (A)	32.0	43.4	52.2
Power Factor	Adjustable from 0.8 leading to 0.8 lagging		
Max. Total Harmonic Distortion	<3%	<3%	<3%
AC Output Data (Back-up)			
Back-up Nominal Apparent Power (VA)	3600	5000	6000
Max. Output Apparent Power (VA)	3600 (4320@60sec)	5000 (6000@60sec)	6000 (7200@60sec)
Max. Output Current (A)	15.7	21.7	26.1
Nominal Output Voltage (V)	230 (±2%)	230 (±2%)	230 (±2%)
Nominal Output Frequency (Hz)	50 / 60 (±0.2%)	50 / 60 (±0.2%)	50 / 60 (±0.2%)
Output THDv (@Linear Load)	<3%	<3%	<3%
Efficiency			
Max. Efficiency	97.6%	97.6%	97.6%
European Efficiency	97.0%	97.0%	97.0%
Max. Battery to AC Efficiency	96.6%	96.6%	96.6%
MPPT Efficiency	99.9%	99.9%	99.9%
Protection			
PV Insulation Resistance Detection	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated
Battery Reverse Polarity Protection	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated
General Data			
Operating Temperature Range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60
Relative Humidity	0 ~ 95%	0 ~ 95%	0 ~ 95%
Max. Operating Altitude (m)	3000[*6]	3000[*6]	3000[*6]
Cooling Method	Natural Convection	Natural Convection	Natural Convection
User Interface	LED, APP	LED, APP	LED, APP
Communication with BMS[*2]	RS485, CAN	RS485, CAN	RS485, CAN
Communication with Meter	RS485	RS485	RS485
Communication with Portal	Wi-Fi / Ethernet (Optional)	Wi-Fi / Ethernet (Optional)	Wi-Fi / Ethernet (Optional)
Weight (kg)	17	17	17
Dimension (W × H × D mm)	354 × 433 × 147	354 × 433 × 147	354 × 433 × 147
Topology	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)[*3]	<10	<10	<10
Ingress Protection Rating	IP65	IP65	IP65
Mounting Method	Wall Mounted	Wall Mounted	Wall Mounted

*1: The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited 4600VA.
*2: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.
*3: No Back-up Output.
*4: For Brazil, the voltage is 220V.
*5: For Brazil, the current is 27.3A.
*6: 2000m for Australia.
*: Please visit GoodWe website for the latest certificates.

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