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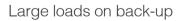
EH Series

3.6-6kW I Single Phase HV Hybrid Inverter

The GoodWe EH Series is a single-phase, grid-tied inverter that includes a "Battery Ready" option for users who might wish to add a full energy storage solution in the future. By simply purchasing an activation code, the EH can easily be upgraded to a complete energy storage solution. The EH is compatible with high voltage batteries (85-460V) and can automatically switch to back-up mode in less than 10 milliseconds (UPS-level), ensuring that critical loads experience no interruption. With a power deviation lower than 20W, this inverter is designed to maximize self-consumption. In addition, the fact that it takes less than 9 seconds to switch from grid to PV, to supply power for heavy loads, helps users to avoid expensive intakes from the grid. The communication cables come pre-wired, reducing installation time significantly. The Plug & Play AC connector also makes operation and maintenance much more convenient.









UPS level automatic switch in <10ms

Wide battery voltage range 85 ~ 460V



Maximize self-consumption

Pre-wired communication cables

GOODWE

Technical Data	GW3600-EH	GW5000-EH	GW6000-EH
Battery Input Data			
Battery Type	Li-Ion	Li-Ion	Li-lon
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) Nominal Input Voltage (V)	<u> </u>	<u> </u>	<u> </u>
Max. Input Current per MPPT (A)	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5
Max. Input Current per MPP1 (A) Max. Short Circuit Current per MPPT (A) ^{*4}	15.2 / 15.2	12.5 / 12.5	12.5 / 12.5
Number of MPPTs	2	2	15.27 15.2
Number of Strings per MPPT	1	1	2
	1		-
AC Output Data (On-grid)			
Nominal Apparent Power Output to Utility Grid (VA)*2	3600	5000	6000
Max. Apparent Power Output to Utility Grid (VA)*2	3600 / 3960*1	5000 / 5500 ^{*1}	6000 / 6600 ^{*1}
Max. Apparent Power from Utility Grid (VA)	7200	10000	12000
Nominal Output Voltage (V)	230 / 220*5	230 / 220*5	230 / 220*5
Output Voltage Range (V)	0 - 300	0 - 300	0 - 300
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
Max. AC Current Output to Utility Grid (A)	<u>16 / 18^{*1}</u>	21.7 / 24*1	26.1 / 28.7*1 / 27.3*6
Max. AC Current From Utility Grid (A)	32	43.4	52.2
Nominal Output Current (A)	15.6	21.7	. 26.1
Power Factor		ustable from 0.8 leading to 0.8 lag	<u>, , , , , , , , , , , , , , , , , , , </u>
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			
	Integrated	Integrated	Integrated
PV Insulation Resistance Detection Residual Current Monitoring	Integrated Integrated	Integrated 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*7	3000'7	3000*7
Cooling Method	Nature Convection LED. APP	Nature Convection LED, APP	Nature Convection LED. APP
Display Communication with BMS ⁻³	,	,	RS485, CAN
Communication with BMS ⁻	RS485, CAN RS485	RS485, CAN RS485	RS485, CAN RS485
Communication with Neter	Wi-Fi / Ethernet (Optional)	Wi-Fi / Ethernet (Optional)	Wi-Fi / Ethernet (Optior
Weight (kg)	17	17	17
Dimension (W \times H \times D mm)	354 × 433 × 147	354 × 433 × 147	354 × 433 × 147
Noise Emission (dB)	<354 x 433 x 147 <35	354 × 433 × 147 <35	354 x 433 x 147 <35
Topology	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W) ^{*4}	<10	<10	<10
Ingress Protection Rating	<10 IP65	<10 IP65	
		Wall Bracket	Wall Bracket
Mounting Method	Wall Bracket	Wall Bracker	Wall Bracket

*1: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.
*2: No back-up output.
*3: When there is no battery connected, inverter starts feeding in only if string

voltage is higher than 200V. *4: For Australia Max. Short Circuit Current per MPPT (A) please refer to 'Manufacturer declaration: short circuit current'. *: Please visit GoodWe website for the latest certificates.

www.goodwe.com.au