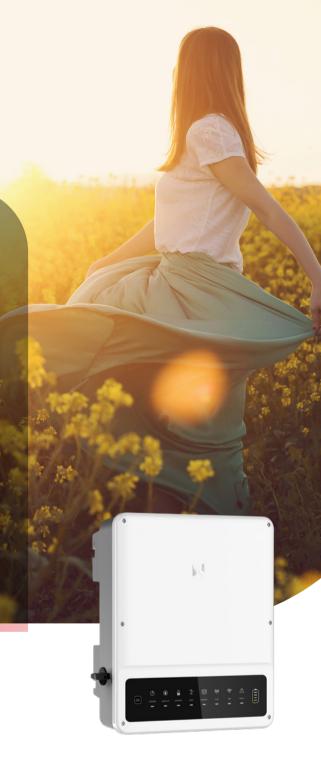
GOODWE

EH Series

3.6-6kW I Single Phase I 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 selfconsumption. 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.





Large loads on back-up



UPS level automatic switch in <10ms



Maximize self-consumption



Wide battery voltage range 85 ~ 460V



Pre-wired communication cables



Technical Data	GW3600-EH	GW5000-EH	GW6000-EH	
Battery Input Data				
Battery Type		Li-lon		
Nominal Battery Voltage (V)	350			
Battery Voltage Range (V)	85 ~ 460			
Max. Continuous Charging Current (A)		25		
Max. Continuous Discharging Current (A)		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		
MPPT Operating Voltage Range (V)**		100 ~ 550		
Start-up Voltage (V) Nominal Input Voltage (V)		90 380		
Max. Input Current per MPPT (A)		12.5		
Max. Short Circuit Current per MPPT (A)*6		15.2		
Number of MPPTs		2		
Number of Strings per MPPT		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,	10000 (Charging 5kw,	12000 (Charging 6kV	
iviax. Apparent Power Irom Utility Grid (VA)	Backup Output 3.6kw)	Backup Output 5kw)	Backup Output 6kW	
Nominal Output Voltage (V)		230 / 220*4		
Output Voltage Range (V)		0 ~ 300		
Nominal AC Grid Frequency (Hz)		50 / 60		
AC Grid Frequency Range (Hz) Max. AC Current Output to Utility Grid (A)	16.0	45 ~ 65 21.7	26.1 / 27.3*5	
Max. AC Current From Utility Grid (A)	32.0	43.4	52.2	
Nominal Output Current (A)	15.6	21.7	26.1	
Power Factor	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)	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) Nominal Output Frequency (Hz)	230 (±2%)			
Output THDv (@Linear Load)	50 / 60 (±0.2%) <3%			
Efficiency		1070		
		97.6%		
Max. Efficiency European Efficiency		97.6%		
Max. Battery to AC Efficiency		96.6%		
MPPT Efficiency		99.9%		
Protection				
PV Insulation Resistance Detection		Integrated		
Residual Current Monitoring		Integrated		
Battery Reverse Polarity Protection	Integrated			
Anti-islanding Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection		Integrated		
General Data		05 00		
Operating Temperature Range (°C) Relative Humidity	-25 ~ +60 0 ~ 95%			
Max. Operating Altitude (m)	2000			
Cooling Method	Nature Convection			
Display	LED, APP			
Communication with BMS ^{*2}	RS485, CAN			
Communication with Meter Communication with Portal	RS485 Wi-Fi / Ethernet (Optional)			
Weight (kg)		wi-ri / Ethernet (Optional)		
Dimension (W × H × D mm)		354 × 433 × 147		
	<35			
Noise Emission (dB)		Non-isolated		
Topology		Non-isolated		
Topology Self-consumption at Night (W)'3		Non-isolated <10		
Topology Self-consumption at Night (W)" ³ Ingress Protection Rating		Non-isolated <10 IP65		
Topology Self-consumption at Night (W)" ³		Non-isolated <10		

^{*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: 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.

**: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.