

GOODWE

BH Series

3-6kW | Single Phase | AC Retrofit | High Voltage Battery (Coming soon)

The brand new BH GoodWe inverter is a 3-6kW AC-coupled retrofit inverter solution compatible with a wide range of high voltage batteries (85-460V). With a power deviation from the inverter's AC output to load consumption lower than 20W, it is comprehensively designed to maximize solar self-consumption. In addition, by only taking less than 10 seconds to switch from grid to PV to supply power for heavy loads it helps users to avoid expensive intakes from the grid. The versions running from 3 to 6kW include UPS function. The communication cables come pre-wired, which reduces installation time significantly. The Plug & Play AC connector also makes operation and maintenance significantly more convenient.



Maximize self-consumption



Wide battery voltage range 85 ~ 460V



Pre-wired, Plug & Play

Technical Data	GW3600-BH	GW5000-BH	GW6000-BH
Battery Input Data			
Battery Type		Li-Ion	
Nominal Battery Voltage (V)		350	
Battery Voltage Range (V)		85 ~ 460	
Start-up Voltage (V)		85	
Number of Battery Input		1	
Max. Continuous Charging Current (A)		25	
Max. Continuous Discharging Current (A)		25	
Max. Charging Power (W)	3600	5000	6000
Max. Discharging Power (W)	4000	5500	6600
AC Output Data (On-grid)			
Nominal Output Power (W)	3600	5000	6000
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	
Output Voltage Range (V)		0 ~ 300	
Nominal AC Grid Frequency (Hz)		50 / 60	
AC Grid Frequency Range (Hz)		45 ~ 65	
Max. AC Current Output to Utility Grid (A)	16.0	21.7	26.1
Max. AC Current From Utility Grid (A)	32	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 without Grid (VA)	3600 (4320@60sec)	5000 (6000@60sec)	6000 (7200@60sec)
Max. Output Apparent Power with Grid (VA)	3600	5000	6000
Nominal Output Current (A)	15.7	21.7	26.1
Max. Output Current (A)	15.7	21.7	26.1
Nominal Output Voltage (V)		230 (±2%)	
Nominal Output Frequency (Hz)		50 / 60 (±0.2%)	
Output THDv (@Linear Load)		<3%	
Efficiency			
Max. Efficiency		96.6%	
European Efficiency		96.0%	
Max. Battery to AC Efficiency		96.6%	
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			
Operating Temperature Range (°C)		-25 ~ +60	
Relative Humidity		0 ~ 95%	
Max. Operating Altitude (m)		3000 ^{*3}	
Cooling Method		Nature Convection	
Display		LED, APP	
Communication with BMS		CAN	
Communication with Meter		RS485	
Communication with Portal		Wi-Fi / Ethernet (Optional)	
Weight (kg)		15.5	
Dimension (W x H x D mm)		354 x 433 x 147	
Noise Emission (dB)		<35	
Topology		Non-isolated	
Self-consumption at Night (W) ^{*2}		<10	
Ingress Protection Rating		IP65	
Mounting Method		Wall Bracket	
Country of Manufacture		China	

*1: For GW5000-BH and GW6000-BH, the grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited 4600VA.

*2: No Back-up Output.

*3: 2000m for Australia.

*: Please visit GoodWe website for the latest certificates