## GOODWE

## BH Series 3-6kW I Single Phase I AC Retrofit High Voltage Battery

The GoodWe BH Series inverter is a single-phase, AC-coupled retrofit inverter compatible with a wide range of high voltage batteries from 85 to 450V. It is designed to maximize self-consumption with UPS-level switching backup function. The pre-wired communication cables and AC connector's 'Plug & Play' simplify installation, operation and maintenance.



Maximize self-consumption



Wide battery voltage range 85~450V



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	Technical Data	GW3k-BH	GW3600-BH	GW5000-BH	GW6000-BH
	Battery Input Data				
	Battery Type	Li-Ion	Li-lon	Li-Ion	Li-lon
	Nominal Battery Voltage (V)	350	350	350	350
	Battery Voltage Range (V)	85~400	85~400	85~400	85~400
	Max. Continuous Charging Current (A)	32	25	25	25
	Max. Continuous Discharging Current (A)	32	25	25	25
	Max. Charging Power (W)	3000	3600	5000	6000
	Max. Discharging Power (W)	3300	4000	5500	6600
	AC Output Data (On-grid)				
	Nominal Apparent Power Output to Litility Grid (VA)*2	3000	3600	5000	6000
	Max Apparent Power Output to Utility $Grid(VA)^{*2}$	3000/3300*1	3600/3060*1	5000/5500*1	6000/6600 <sup>*1</sup>
	Max. Apparent Power from Litility Grid (VA)	6000	7200	1000	12000
	Nominal Output Voltage (V/)	230	2200	220	220
	Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	50/60
	Max AC Current Output to Utility Grid (A)	13 1/14 2*1	16/18 <sup>*1</sup>	21 7/2/ <sup>*1</sup>	26 1/29 7 <sup>*1</sup>
	Max. AC Current From Litility Grid (A)	26.2	22	121.1/24	52.2
	Power Easter	20.2	Adjustable from 0.8	43.4	JZ.Z
	Max Total Harmonic Distortion	<3%	<3%	<3%	<3%
	AC Output Data (Back-up)				
				5000	
	Back-up Nominal Apparent Power (VA)	3000	3600	5000	6000 (7000@00)
	Max. Output Apparent Power (VA)	3000 (3600@60sec)	3600 (4320@60sec)	5000 (6000@60sec)	6000 (7200@60sec)
	Max. Output Current (A)	13.1	15.7	21.7	26.1
		230 (±2%)	230 (±2%)	230 (±2%)	230 (±2%)
	Nominal Output Frequency (Hz)	50/60 (±0.2%)	50/60 (±0.2%)	50/60 (±0.2%)	50/60 (±0.2%)
_	Output THDV (@Linear Load)	<3%	<3%	<3%	<3%
	Efficiency				
	Max. Efficiency	96.6%	96.6%	96.6%	96.6%
	European Efficiency	96.0%	96.0%	96.0%	96.0%
	Max. Battery to AC Efficiency	96.6%	96.6%	96.6%	96.6%
	Protection				
	PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
	Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
	Battery Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
	Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
	AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
	AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
	AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
	General Data				
	Operating Temperature Bange (°C)	-35~60	-35~60	-35~60	-35~60
	Relative Humidity	0~95%	0~95%	0~95%	0~95%
	Max Operating Altitude (m)	4000*4	4000*4	4000*4	4000*4
	Cooling Method	Nature Convection	Nature Convection	Nature Convection	Nature Convection
	Display	I FD & APP	I FD & APP	LED & APP	I FD & APP
	Communication with BMS	CAN	CAN	CAN	CAN
	Communication with Motor	DS/85	DS/85	DQ195	DS/85
	Communication with Portal	Wi-Fi/Ethernet(Ontional)	Wi-Fi/Ethernet(Ontional)	Wi-Fi/Ethernet(Ontional)	Wi-Fi/Ethernet(Ontional)
		25/*/22*1/7	25/*/22*1/7	35/*/22*1/7	25/*/22*1/7
		-05	-05	-05	-05
	INVISE EMISSION (OB)	CC>	CC>	CC>	CC>
		INON-ISOIAted	INON-ISOIAted	ivon-isolated	INON-ISOIAted
	Self-consumption at Night (W)	<10	<10	<10	<10
	Ingress Protection Rating	IP65	IP65	IP65	IP65
	Mounting Method	Wall Bracket	Wall Bracket	Wall Bracket	Wall Bracket

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\*1: For CEI 0-21.
\*2: The grid feed in power for VDE-AR-N 4105 and NRS097-2-1 is limited 4600VA.
\*3: No Back-up Output.
\*4: 2000m for Australia.
\*: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.
\*: Please visit GoodWe website for the latest certificates