

BH Series (AC-Coupled)

Single Phase AC Retrofit Inverter (HV Battery)



Technical Data		GW1000-BH	GW2000-BH	GW3000-BH	GW3K-BH	GW3600-BH	GW5000-BH	GW6000-BH	
Battery Input Data	Battery Type	Li-Ion			Li-Ion				
	Battery Voltage Range (V)	80~400			85~400	85~450			
	Start-up Voltage (V)	80			90				
	Max. Charging/Discharging Current (A)	13	15	15	32/32	25/25			
AC Output Data /Input Data (On-grid)	Nominal Power Output to Utility Grid (W)	1000	2000	3000	3000	3600	4600/5000* ¹	4600/5000/6000* ²	
	Max. Apparent Power Output to Utility Grid (VA)	1000	2000	3000	3000	3600/3960* ³	4600/5000/5500* ⁴	4600/5000/6000/6600* ⁵	
	Max. Apparent Power from Utility Grid (VA)	1000	2000	3000	6000(Charging 3kw, back-up output 3kw)	7200(Charging 3.6kw, back-up output 3.6kw)	10000(Charging 5kw, back-up output 5kw)	12000(Charging 6kw, back-up output 6kw)	
	Nominal Output Voltage (V)	230			230				
	Nominal Output Frequency (Hz)	50/60			50/60				
	Max. AC Current Output to Utility Grid (A)	5	10	13.5	13.1	16/18* ⁶	21.7/24* ⁷	21.7* ⁸ /26.1/28.7* ⁹	
	Max. AC Current from Utility Grid (A)	NA			27	32	43.4	52.2	
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				~1 (Adjustable from 0.8 leading to 0.8 lagging)			
	Output THDi (@Nominal Output)	<3%			<3%				
	Output Data (Back-up)	Max. Output Apparent Power (VA)	No Back-up			3000	3600	5000	6000
Peak Output Apparent Power (VA)		3600, 60SEC				4320, 60SEC	6000, 60SEC	7200, 60SEC	
Max. Output Current (A)		13.1				16	21.7	26.1	
Automatic Switch Time (ms)		<10							
Nominal Output Voltage (V)		230 (±2%)							
Nominal Output Frequency (Hz)		50/60 (±0.2%)							
Output THDv (@Linear Load)		<3%							
Efficiency		Max. Efficiency				96.0%	96.5%	96.5%	96.6%
Protection	Anti-Islanding Protection	Integrated			Integrated				
	Battery Input Reverse Polarity Protection	Integrated			Integrated				
	Insulation Resistor Detection	Integrated			Integrated				
	Residual Current Monitoring Unit	Integrated			Integrated				
	Output Over Current Protection	Integrated			Integrated				
	Output Short Protection	Integrated			Integrated				
	Output Over Voltage Protection	Integrated			Integrated				
General Data	Operating Temperature Range (°C)	-35~60			-35~60				
	Relative Humidity	0~95%			0~95%				
	Operating Altitude (m)	≤4000			4000				
	Cooling	Natural Convection			Natural Convection				
	Noise (dB)	<25			<35				
	User Interface	LED & APP			LED & APP				
	Communication with BMS	CAN			CAN				
	Communication with Meter	RS485			RS485				
	Communication with Portal	Wi-Fi/Ethernet (Optional)			Wi-Fi/Ethernet (Optional)				
	Weight (kg)	8.5			15.5				
	Size (Width*Height*Depth mm)	344*274.5*128			354*433*147				
	Mounting	Wall Bracket			Wall Bracket				
	Protection Degree	IP65			IP65				
	Standby Self-Consumption (W)* ¹⁰	<15			<10				
	Topology	Transformerless			Transformerless				
Certifications & Standards	Grid Regulation	G98			AS/NZS 4777.2:2015	AS/NZS 4777.2:2015; G99; CEI 0-21; VDE4105-AR-N			
	Safety Regulation	-			IEC/EN 62477-1, AS 62040.1.1				
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29			EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29				

*¹4600 for VDE-AR-N 4105, 4950 for AS/NZS 4777.2, 5000 for other country.

*²4600 for VDE-AR-N 4105, 4950 for AS/NZS 4777.2 feed in power limit.

*³3960 for CEI 0-21, 3600 for other countries.

*⁴4600 for VDE-AR-N 4105, 4950 for AS/NZS 4777.2, 5500 for CEI 0-21, 5000 for other country.

*⁵4600 for VDE-AR-N 4105, 4950 for AS/NZS 4777.2, 6600 for CEI 0-21, 6000 for other country.

*⁶ *⁷ *⁸ *⁹ for CEI 0-21.

*⁸ 21.7 for AS/NZS 4777.2 feed in power limit, selfuse can reach 26.1.

*¹⁰ No back-up output.