GOODWE

SBP Series

3.6-5kW I Single phase AC-coupled retrofit inverter (LV)

The GoodWe SBP Series is the world's first AC-coupled battery storage retrofit solution with UPS function for single-phase and three-phase systems. It can effectively upgrade any existing string inverter system by adding a backup battery. Capable of being grid-interactive, it allows users to store surplus power and sell it back to the grid when demand peaks and the price of electricity is at its highest. With a UPS-level switching function (switching time <10 ms), the GoodWe SBP provides an uninterruptible power supply to inductive loads such as air conditioners or refrigerators. It runs reliably under even the most extreme conditions with metal aluminium housing with IP65 protection.

Smart Control & Monitoring

- <10ms UPS-level switching
- Smart home integration with multi-protocol communications

Friendly & Thoughtful Design

- Fanless cooling for quiet operation
- Elegant and compact design

Superb Safety & Reliability

- IP65 ingress protection
- Quality and robust components

Flexible & Adaptable Applications

- Grid-interactive
- Suitable for both single-phase & three-phase systems

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Technical Data	GW3600S-BP	GW5000S-BP
Battery Input Data		
Battery Type[*1]	Li-Ion	Li-Ion
Nominal Battery Voltage (V)	48	48
Battery Voltage range (V)	40 ~ 60	40 ~ 60
Max. Continuous Charging Current (A)[*1]	75	100
Max. Continuous Discharging Current (A)[*1]	75	100
Max. Charging Power (W)	3500	4700
Max. Discharging Power (W)	3900	5300
AC Output Data (On-grid)		
Nominal Apparent Power Output to Utility Grid (VA)	3680	5000
Max. Apparent Power Output to Utility Grid (VA)[*2]	3680	5000
Max. Apparent Power from Utility Grid (VA)	7360	9200
Nominal Output Voltage (V)	230	230
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60
Max. AC Current Output to Utility Grid (A)	16.0	22.8
Max. AC Current From Utility Grid (A)	32	40
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	<3%
AC Output Data (Back-up)		
Back-up Nominal Apparent Power (VA)	3680	5000
Max. Output Apparent Power (VA)[*3]	3680 (4416@10sec)	5000 (5500@10sec)
Max. Output Current (A)	16.0	22.8
Nominal Output Voltage (V)	230	230
Nominal Output Frequency (Hz)	50 / 60 (±0.2%)	50 / 60 (±0.2%)
Output THDv (@Linear Load)	<3%	<3%
Efficiency		
Max. Efficiency	95.5%	95.5%
European Efficiency	94.0%	94.0%
Max. Battery to AC Efficiency	95.5%	95.5%
Protection		
Anti-islanding Protection	AFDPF + AQDPF[*4]	AFDPF + AQDPF[*4]
AC Overcurrent Protection	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated
General Data		
Operating Temperature Range (°C)	-25 ~ +60	-25 ~ +60
Relative Humidity	0 ~ 95%	0 ~ 95%
Max. Operating Altitude (m)[*6]	4000	4000
Cooling Method	Natural Convection	Natural Convection
User Interface	LED, APP	LED, APP
Communication with BMS[*5]	RS485, CAN	RS485, CAN
Communication with Meter	RS485	RS485
Communication with Portal	WiFi	WiFi
Weight (kg)	18.5	18.5
Dimension (W × H × D mm)	347 × 432 × 190	347 × 432 × 190
Noise Emission (dB)	<25	<25
Topology	Non-isolated	Non-isolated
Self-consumption at Night (W)	<15	<15
Ingress Protection Rating	IP65	IP65
Mounting Method	Wall Bracket	Wall Bracket

*1: The actual charge and discharge current also depends on the battery.
*2: For CEI 0-21 GW3600S-BP is 4050, GW5000S-BP is 5100; For VDE-AR-N4105 GW5000S-BP is 4600.
*3: Peak output apparent power can be reached only if PV and battery power is enough.
*4: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.
*5: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.
*6: 2000m for Australia.
*: Battery capacity could be not less than 100Ah where the back-up function is to be applied.
*: Please visit GoodWe website for the latest certificates.