

SBP Series

3.6-5kW | Single Phase AC-Coupled LV Retrofit Inverter

The GoodWe SBP series is the world's first AC-coupled battery storage retrofit solution with UPS function for both 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 its UPS function with an automatic switchover time of less than 10ms, the GoodWe SBP provides uninterruptible power supply to inductive loads such as air conditioners or refrigerators.



Capable of being grid-interactive



Suitable for both single-phase & three-phase systems



Smart BMS – Max. discharge power up to 5kW



Export control (zero export)



8 ms UPS-level Switching

| Technical Data | GW3600S-BP | GW5000S-BP |
|---|--|----------------------|
| Battery Input Data | | |
| Battery Type | Li-Ion | Li-Ion |
| Nominal Battery Voltage (V) | 48 | 48 |
| Max. Charging Voltage (V) | ≤60 (Configurable) | ≤60 (Configurable) |
| Max. Charging Current (A)* ¹ | 75 | 100 |
| Max. Discharging Current (A)* ¹ | 75 | 100 |
| Battery Capacity (Ah)* ² | 50~2000 | 50~2000 |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS | Self-adaption to BMS |
| AC Output Data (On-grid) | | |
| Nominal Apparent Power Output to Utility Grid (VA) | 3680 | 5000 |
| Nominal Power Output to Utility Grid (W) | 3680 | 5000* ³ |
| Max. Apparent Power Output to Utility Grid (VA)* ⁴ | 3680 | 5000 |
| Nominal Apparent Power from Utility Grid (VA) | 3680 | 5000 |
| Max. Apparent Power from Utility Grid (VA) | 7360 | 9200 |
| Nominal Output Voltage (V) | 230 | 230 |
| Nominal Output Frequency (Hz) | 50 / 60 | 50 / 60 |
| Max. AC Current Output to Utility Grid (A) | 16 | 22.8 |
| Max. AC Current from Utility Grid (A) | 32 | 40 |
| Output Power Factor | ~1(Adjustable from 0.8 leading to 0.8 lagging) | |
| Output THDi (@Nominal Output) | <3% | <3% |
| AC Output Data (Back-up) | | |
| Back-up Nominal Apparent Power (VA) | 3680 | 5000 |
| Max. Output Apparent Power (VA)* ⁵ | 3680 | 5000 |
| Peak Output Apparent Power (VA)* ⁵ | 4416, 10sec | 5500, 10sec |
| Automatic Switch Time (ms) | <10 | <10 |
| Nominal Output Voltage (V) | 230 (±2%) | 230 (±2%) |
| Nominal Output Frequency (Hz) | 50 / 60 (±0.2%) | 50 / 60 (±0.2%) |
| Max. Output Current (A) | 16 | 22.8 |
| Output THDv (@Linear Load) | <3% | <3% |
| Efficiency | | |
| Max. Efficiency | 95.5% | 95.5% |
| Protection | | |
| Anti-Islanding Protection | 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) | -25~60 | -25~60 |
| Relative Humidity | 0~95% | 0~95% |
| Operating Altitude (m) | 4000 | 4000 |
| Cooling | Nature Convection | Nature Convection |
| Noise (dB) | <25 | <25 |
| User Interface | LED & APP | LED & APP |
| Communication with BMS* ⁶ | RS485; CAN | RS485; CAN |
| Communication with Meter | RS485 | RS485 |
| Communication with Portal | Wi-Fi | Wi-Fi |
| Weight (Kg) | 18.5 | 18.5 |
| Size (Width × Height × Depth mm) | 347 × 432 × 190 | 347 × 432 × 190 |
| Mounting | Wall Bracket | Wall Bracket |
| Protection Degree | IP65 | IP65 |
| Standby Self-Consumption (W) | <15 | <15 |
| Topology | Battery Isolation | Battery Isolation |

*¹: The actual charge and discharge current also depends on the battery.

*²: Battery capacity could be not less than 100Ah where the back-up function is to be applied.

*³: 4600W for VDE0126-1-1&VDE-AR-N 4105 and CEI 0-21.

*⁴: For CEI 0-21 GW3600S-BP is 4050W, GW5000S-BP is 5100W; for VDE-AR-N4105 GW5000S-BP is 4600W.

*⁵: Can be reached only if battery capacity is enough, otherwise will shut down.

*⁶: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.

*: Please visit GoodWe website for the latest certificates.