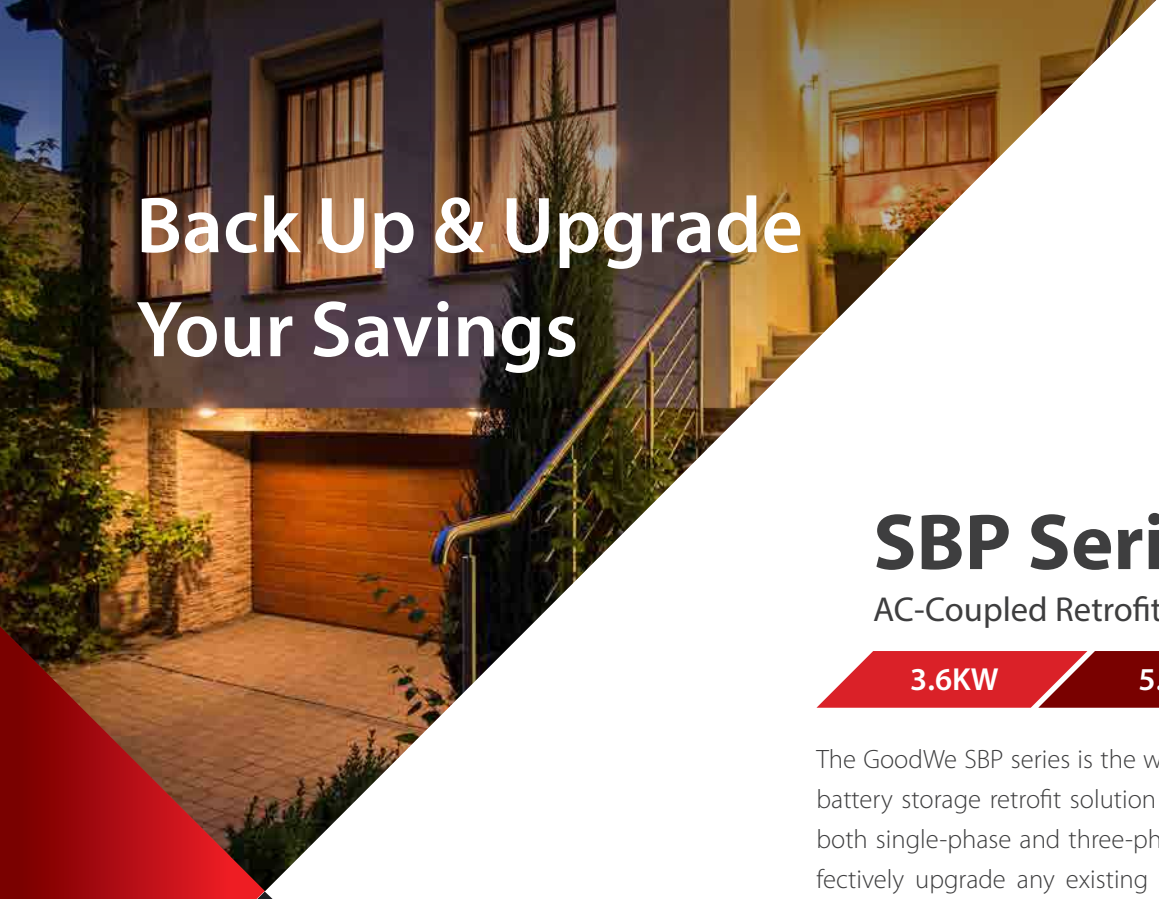


GOODWE
YOUR SOLAR ENGINE

# Back Up & Upgrade Your Savings

## SBP Series

AC-Coupled Retrofit Solution

**3.6KW** | **5.0KW**

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 battery backup. Capable of being either grid-interactive or independent, 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.

- Single & Three Phase Systems
- IP65
- UPS — Uninterruptible Power Supply
- 100A
- Remote Upgrade


www.goodwe.com

# Technical Data

| Model | Max. Charging Current (A)*1 | Max. Discharging Current (A)*1 | Nominal Power Output (W) | Max. Apparent Power Output (VA)*4 | Max. Apparent Power From Utility Grid (VA) |
|---|---|---|---|---|---|
| **GW3600S-BP** | 75 | 75 | 3680 | 3680 | 7360 |
| **GW5000S-BP** | 100 | 100 | 5000*3 | 5000 | 9200 |

| Model | Max. AC Current Output (A) | Max. AC Current From Utility Grid (A) | Max. Output Apparent Power (VA)*6 | Peak Output Apparent Power (VA)*6 [Back-up] | Max. Output Current (A) [Back-up] |
|---|---|---|---|---|---|
| **GW3600S-BP** | 16 | 32 | 3680 | 4416, 10sec | 16 |
| **GW5000S-BP** | 22.8*5 | 40 | 5000 | 5500, 10sec | 22.8 |

## Battery Input Data

| | |
|---|---|
| Battery Type | Li-Ion or Lead-acid*1 |
| Nominal Battery Voltage (V) | 48 |
| Max. Charging Voltage (V) | ≤60 (Configurable) |
| Battery Capacity (Ah)*2 | 50~2000 |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS |

## AC Output Data (Back-up)

| | |
|---|---|
| Automatic Switch Time (ms) | <10 |
| Nominal Output Voltage (V) | 230 (±2%) |
| Nominal Ouput Frequency (Hz) | 50/60 (±0.2%) |
| Output THDv (@Linear Load) | <3% |

## Efficiency

| | |
|---|---|
| Max. Efficiency | 95.5% |

## Protection

| | |
|---|---|
| Anti-islanding Protection | Integrated |
| Output Over Current Protection | Integrated |
| Output Short Protection | Integrated |
| Output Over Voltage Protection | Integrated |

## AC Output Data (On-grid)

| | |
|---|---|
| Nominal Output Voltage (V) | 230 |
| Nominal Output Freqency (Hz) | 50/60 |
| Output Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) |
| Output THDi (@Nominal Output) | <3% |

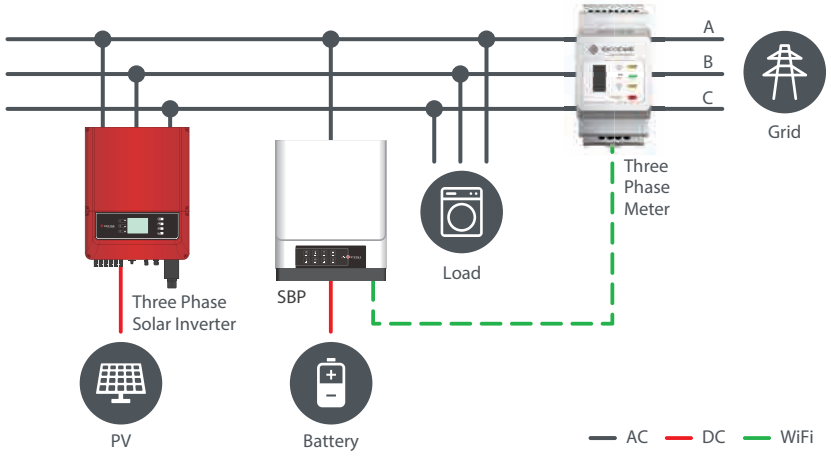
## General Data

| | |
|---|---|
| Operating Temperature Range (°C) | -25~60 |
| Relative Humidity | 0~95% |
| Operating Altitude (m) | ≤4000 |
| Cooling | Natural Convection |
| Noise (dB) | <25 |
| User Interface | LED & APP |
| Communication with BMS*7 | RS485; CAN |
| Communication with Meter | RS485 |
| Communicaiton with Portal | Wi-Fi |
| Weight (kg) | 18.5 |
| Size (Width*Height*Depth mm) | 347*432*190 |
| Mounting | Wall Bracket |
| Protection Degree | IP65 |
| Standby Self Consumption (W) | <15 |
| Topology | High Frequency Isolation |

## Certifications & Standards

| | |
|---|---|
| Grid Regulation | AS/NZS 4777.2:2015, G83/2, G100, CEI 0-21, RD1699, UNE206006, VDE4105-AR-N, VDE0126-1-1, EN50438 |
| Safety | IEC62477-1, IEC62040-1 |
| EMC | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29 |

**3 bước hoạt động của biến tần**




*1: Lead-acid battery use refers to Approved Battery Options Statement .
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: 4600 for VDE0126-1-1&VDE-AR-N 4105 and CEI 0-21.
*4: For CEI 0-21 GW3648-EM is 4050, GW5048-EM is 5100; for VDE-AR-N4105 GW5048-EM is 4600.
*5: 21.7A for AS4777.2.
*6: Can be reached only if battery capacity is enough, otherwise will shut down.
*7: The standard configuration is CAN.