

# 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



Export control (zero export)



Smart BMS – Max. discharge power up to 5kW



8 ms UPS-level Switching

Technical Data	GW3600S-BP	GW5000S-BP
<b>Battery Input Data</b>		
Battery Type	Li-Ion	Li-Ion
Nominal Battery Voltage (V)	48	48
Max. Charging Voltage (V)	≤60 (Configurable)	≤60 (Configurable)
Max. Charging Current (A)* <sup>1</sup>	75	100
Max. Discharging Current (A)* <sup>1</sup>	75	100
Battery Capacity (Ah)* <sup>2</sup>	50~2000	50~2000
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	Self-adaption to BMS
<b>AC Output Data (On-grid)</b>		
Nominal Power Output to Utility Grid (W)	3680	5000* <sup>3</sup>
Max. Apparent Power Output to Utility Grid (VA)* <sup>4</sup>	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* <sup>5</sup>
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%
<b>AC Output Data (Back-up)</b>		
Max. Output Apparent Power (VA)* <sup>6</sup>	3680	5000
Peak Output Apparent Power (VA)* <sup>6</sup>	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%
<b>Efficiency</b>		
Max. Efficiency	95.5%	95.5%
<b>Protection</b>		
Anti-Islanding Protection	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated
Output Short Protection	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated
<b>General Data</b>		
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* <sup>7</sup>	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

\*<sup>1</sup>: The actual charge and discharge current also depends on the battery.

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

\*<sup>3</sup>: 4600W for VDE0126-1-1&VDE-AR-N 4105 and CEI 0-21.

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

\*<sup>5</sup>: 21.7A for AS4777.2.

\*<sup>6</sup>: Can be reached only if battery capacity is enough, otherwise will shut down.

\*<sup>7</sup>: 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.