GOODWE

SBP Series
3.6-5kW I Single Phase AC-Coupled LV Retrofit Inverter

GoodWe's SBP series AC-coupled battery storage retrofit solution is suitable for both single-phase and three-phase systems. During the day, the PV system generates electricity which will be provided to the loads initially. Then, the excess energy will charge the battery via the SBP energy storage inverter. Finally, the stored electricity can be released when the loads require it. The battery can also be charged by the grid to ensure uninterrupted supply in the event of a power cut.

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

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Technical Data	GW3600S-BP	GW5000S-BP
Battery Input Data		
Battery Type	Li-Ion	Li-Ion
Nominal Battery Voltage (V)	48	48
Battery Voltage Range (V)	40~60	40~60
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
Max. Apparent Power Output to Utility Grid (VA)	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
Output Voltage Range (V)	0~300	0~300
Nominal Ouput 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%
Maximum Output Fault Current	55A, 5μs	55A, 5μs
AC Output Data (Back-up)		
Back-up Nominal Apparent Power (VA)	3680	5000
Max. Output Apparent Power (VA)*3	3680	5000
Peak Output Apparent Power (VA)*3	4416, 10sec	5500, 10sec
Automatic Switch Time (ms)	<10	<10
Nominal Output Voltage (V)	230 (±2%)	230 (±2%)
Nominal Output Freqency (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
Communicaiton with BMS*4	RS485; CAN	RS485; CAN
Communicaiton with Meter	RS485	RS485
Communicaiton 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
Protective Class	III	III
Over Voltage Category	OVC III	OVC III
Standby Self-Consumption (W)	<15	<15
Topology	Battery Isolation	Battery Isolation
Active Anti-islanding Method	Frequency Shift	Frequency Shift
Country of Manufacture	China	China

*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: Can be reached only if battery capacity is enough, otherwise will shut down.
*4: 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.