

SBP Series (AC-Coupled)

Single Phase AC Retrofit Inverter (LV Battery)



Technical Data		GW3600S-BP	GW5000S-BP
Battery Input Data	Battery Type* ¹	Li-Ion	
	Nominal Battery Voltage (V)	48	
	Max. Charging Voltage (V)	≤60 (Configurable)	
	Max. Charging Current (A)* ¹	75	100
	Max. Discharging Current (A)* ¹	75	100
	Battery Capacity (Ah)* ²	50~2000	
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
AC Output Data (On-grid)	Nominal Power Output to Utility Grid (W)	3680	5000* ³
	Max. Apparent Power Output to Utility Grid (VA) ⁴	3680	5000
	Max. Apparent Power from Utility Grid (VA)	7360	9200
	Nominal Output Voltage (V)	230	
	Nominal Output Frequency (Hz)	50/60	
	Max. AC Current Output to Utility Grid (A)	16	22.8* ⁵
	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%	
AC Output Data (Back-up)	Max. Output Apparent Power (VA) ⁶	3680	5000
	Peak Output Apparent Power (VA) ⁶	4416, 10sec	5500, 10sec
	Automatic Switch Time (ms)	<10	
	Nominal Output Voltage (V)	230 (±2%)	
	Nominal Output Frequency (Hz)	50/60 (±0.2%)	
	Max. Output Current (A)	16	22.8
	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	
General Data	Operating Temperature Range (°C)	-25~60	
	Relative Humidity	0~95%	
	Operating Altitude (m)	4000	
	Cooling	Nature Convection	
	Noise (dB)	<25	
	User Interface	LED & APP	
	Communication with BMS* ⁷	RS485; CAN	
	Communication with Meter	RS485	
	Communication 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	Battery Isolation	
Certifications & Standards*⁸	Grid Regulation	VDE-AR-N 4105, VDE 0126-1-1, EN 50549-1, G98, G100, CEI 0-21, AS/NZS 4777.2, NRS 097-2-1	
	Safety Regulation	IEC62477-1, IEC62040-1	
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29	

*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: 21.7A for AS4777.2.

*⁶: Can be reached only if battery capacity is enough, otherwise will shut down.

*⁷: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.

*⁸: Not all certifications & standards listed, check the official website for details.