

# SBP Series (AC-Coupled)

## Single Phase AC Retrofit Inverter (LV Battery)



Technical Data		GW3600S-BP	GW5000S-BP
<b>Battery Input Data</b>	Battery Type* <sup>1</sup>	Li-Ion or Lead-acid	
	Nominal Battery Voltage (V)	48	
	Max. Charging Voltage (V)	≤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	
	Charging Strategy for Li-Ion Battery	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	
	Nominal Output Frequency (Hz)	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%	
<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	
	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%	
<b>Efficiency</b>	Max. Efficiency	95.5%	
<b>Protection</b>	Anti-Islanding Protection	Integrated	
	Output Over Current Protection	Integrated	
	Output Short Protection	Integrated	
	Output Over Voltage Protection	Integrated	
<b>General Data</b>	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* <sup>7</sup>	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	High Frequency Isolation		
<b>Certifications &amp; Standards</b>	Grid Regulation	AS/NZS 4777.2:2015, G83/2, G100, CEI 0-21; RD1699; UNE206006; VDE4105-AR-N; VDE0126-1-1; EN50438	AS/NZS 4777.2:2015, G59/3, G100, CEI 0-21; RD1699; UNE206006; VDE4105-AR-N; VDE0126-1-1; EN50438
	Safety Regulation	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	

\*<sup>1</sup>: lead acid battery use refers to battery compatible statement (Not all lead acid batteries are compatible)

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>: The standard configuration is CAN.