

SBP G2 Series

3.6-6kW | Single Phase AC-coupled retrofit inverter (LV)

The GoodWe SBP G2 Series is an AC-coupled retrofit solution, which is able to upgrade an existing single-phase or three-phase on-grid PV system into an energy storage system by adding a battery. The inverter is compatible with low-voltage batteries ranging from 40 to 60V and allows surplus electricity to be stored in the battery for later use. The integrated plug-and-play solution, compact design, and minimal weight simplify its installation, operation, and maintenance. Importantly, the inverter can automatically realize UPS-level switching to the back-up mode in less than 10ms, ensuring a stable and reliable power supply. An all-round intelligent system for optimized power usage and maximized return on investment.



Smart Control & Monitoring

- <10ms UPS-level switching
- Smart home integration with multi-protocol communications



Friendly & Thoughtful Design

- Plug & Play
- Elegant and compact design



Superb Safety & Reliability

- IP65 ingress protection
- Remote Shutdown



Flexible & Adaptable Applications

- AC-coupled battery storage retrofit solution
- Suitable for both single-phase & three-phase systems

Technical Data		GW3600-SBP-20	GW5000-SBP-20	GW6000-SBP-20
Battery Input Data				
Battery Type ^{*1}		Li-Ion		
Nominal Battery Voltage (V)		48		
Battery Voltage Range (V)		40 ~ 60		
Start-up Voltage (V)		40		
Number of Battery Input		1		
Max. Continuous Charging Current (A) ^{*1}	75	120	120	
Max. Continuous Discharging Current (A) ^{*1}	75	120	120	
Max. Charging Power (W) ^{*1}	3600	5000	6000	
Max. Discharging Power (W)	3900	5300	6300	
AC Output Data (On-grid)				
Nominal Output Power (W)	3680	5000	6000	
Nominal Apparent Power Output to Utility Grid (VA)	3680	5000 ^{*2}	6000 ^{*2}	
Max. Apparent Power Output to Utility Grid (VA)	3680	5000 ^{*2}	6000 ^{*2}	
Max. Apparent Power from Utility Grid (VA)	7360	10000	10000	
Nominal Output Voltage (V)	220 / 230 / 240			
Nominal AC Grid Frequency (Hz)	50 / 60			
Max. AC Current Output to Utility Grid (A)	16.7	22.7	27.3	
Max. AC Current From Utility Grid (A)	33.5	43.5	43.5	
Power Factor	~ 1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
AC Output Data (Back-up)				
Back-up Nominal Apparent Power (VA)	3680	5000	6000	
Max. Output Apparent Power without Grid (VA)	3680 (7360@10sec)	5000 (10000@10sec)	6000 (10000@10sec)	
Max. Output Apparent Power with Grid (VA)	3680	5000	6000	
Max. Output Current (A)	16.7	22.7	27.3	
Nominal Output Voltage (V)	220 / 230 / 240			
Nominal Output Frequency (Hz)	50 / 60			
Output THDv (@Linear Load)	<3%			
Efficiency				
Max. Battery to AC Efficiency	95.5%			
Protection				
Residual Current Monitoring	Integrated			
Anti-islanding Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
AC Surge Protection	Type III			
Remote Shutdown	Integrated			
General Data				
Operating Temperature Range (°C)	-25 ~ +60			
Relative Humidity	0 ~ 95%			
Max. Operating Altitude (m)	3000 (>2000 derating)			
Cooling Method	Natural Convection			
User Interface	LED, WLAN + APP			
Communication with BMS	CAN			
Communication with Meter	RS485			
Communication with Portal	WiFi / WiFi + LAN / 4G			
Weight (kg)	19.2	19.5	19.5	
Dimension (W × H × D mm)	505.9 × 434.9 × 154.8			
Topology	Isolated			
Self-consumption at Night (W)	<10			
Ingress Protection Rating	IP65			
Mounting Method	Wall Mounted			

*1: The actual charge and discharge current / power also depends on the battery.

*2: 4600 for VDE-AR-N4105 & NRS 097-2-1.

*: Please visit GoodWe website for the latest certificates.