

SBP Series

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 UPS-level switching functionality (switching time less than 10 milliseconds), the 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



Smart BMS – Max. discharge power up to 5kW



Export control (zero export)



8 ms UPS-level Switching

Technical Data		GW5000S-BP
Battery Input Data		
Battery Type ^{*1}		Li-Ion
Nominal Battery Voltage (V)		48
Battery Voltage range (V)		40~60
Max. Continuous Charging Current (A) ^{*1}		100
Max. Continuous Discharging Current (A) ^{*1}		100
Max. Charging Power (W)		4700
Max. Discharging Power (W)		5300
AC Output Data (On-grid)		
Nominal Apparent Power Output to Utility Grid (VA)		5000
Max. Apparent Power Output to Utility Grid (VA) ^{*2}		5000
Max. Apparent Power from Utility Grid (VA)		9200
Nominal Output Voltage (V)		230
Output Voltage Range (V)		0~300
Nominal AC Grid Frequency (Hz)		50/60
Max. AC Current Output to Utility Grid (A)		22.8
Max. AC Current From Utility Grid (A)		40
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)		5000
Max. Output Apparent Power (VA) ^{*3}		5000 (5500@10sec)
Max. Output Current (A)		22.8
Nominal Output Voltage (V)		230
Nominal Output Frequency (Hz)		50/60 (±0.2%)
Output THDv (@Linear Load)		<3%
Efficiency		
Max. Efficiency		95.5%
European Efficiency		94.0%
Max. Battery to AC Efficiency		95.5%
Protection		
Anti-islanding Protection		AFDPF + AQDPF ^{*4}
AC Overcurrent Protection		Integrated
AC Short Circuit Protection		Integrated
AC Overvoltage Protection		Integrated
General Data		
Operating Temperature Range (°C)		-25~60
Relative Humidity		0~95%
Max. Operating Altitude (m) ^{*6}		4000
Cooling Method		Nature Convection
Display		LED & APP
Communication with BMS ^{*5}		RS485; CAN
Communication with Meter		RS485
Communication with Portal		Wi-Fi
Weight (kg)		18.5
Dimension WxHxD (mm)		347 x 432 x 190
Noise Emission (dB)		<25
Topology		Non-isolated
Self-consumption at Night (W)		<15
Ingress Protection Rating		IP65
Mounting Method		Wall Bracket
Country of Manufacture		China

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

*2: For CEI 0-21 GW3600S-BP is 4050, GW5000S-BP is 5100; For VDE-AR-N4105 GW5000S-BP is 4600.

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

*4: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.

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

*6: 2000m for Australia.

*: Battery capacity could be not less than 100Ah where the back-up function is to be applied.

*: Please visit GoodWe website for the latest certificates

Lynx Home U Series

5.4-32.4kWh | Low voltage battery

Lynx Home U Series is a low-voltage lithium battery specially designed for residential applications with superior performance. Compatible with GoodWe ES/EM/SBP inverters, Lynx Home U Series comes with GoodWe one-stop-shop solution saving you considerable time and effort. It can be used flexibly for self-consumption and backup applications with a wide capacity range scalable from 5.4 – 32.4kWh. The installation and commissioning are easier and faster than ever with a simple Plug and Play wiring and module auto recognition during system setup. Meet this highly efficient solution for storing your solar power and use it whenever needed.



Smart Control

- Remote diagnosis & update
- Auto reboot after undervoltage



Friendly & Thoughtful Design

- Auto-recognition modules
- Plug & Play wiring



Superb Safety & Reliability

- Reliable LFP technology with high cycle stability
- IP65 protection for outdoor installation safety



Flexible & Adaptable Applications

- 5.4 – 32.4kWh wide capacity range
- Compatible with GoodWe ES/EM/SBP inverters

Technical Data	LX U5.4-L	2*LX U5.4-L	3*LX U5.4-L	4*LX U5.4-L	5*LX U5.4-L	6*LX U5.4-L
Rated Energy (kWh) ¹	5.4	10.8	16.2	21.6	27.0	32.4
Usable Energy (kWh) ²	4.8	9.6	14.4	19.2	24.0	28.8
Cell Type	LFP (LiFePO4)					
Nominal Voltage (V)	51.2					
Operating Voltage Range (V)	48 ~ 57.6					
Nominal Dis- / Charge Current (A) ³	50	100	100	100	100	100
Nominal Power (kW) ³	2.88	5.76	5.76	5.76	5.76	5.76
Communication	CAN					
Weight (kg)	57	114	171	228	285	342
Dimensions (W x H x D mm)	505 x 570 x 175 (LX U5.4-L)					
Operating Temperature Range (°C)	Charge: 0 ~ +50 / Discharge: -10 ~ +50					
Relative Humidity	0 ~ 95%					
Max. Operating Altitude (m)	2000					
Ingress Protection Rating	IP65					
Mounting Method	Wall Mounted / Grounded					
Standard and Certification	Safety	IEC62619, IEC62040, CEC				
	EMC	CE, RCM				
	Transportation	UN38.3				

*1: Test conditions, cell Voltage 2.5 ~ 3.65V, 0.5C charge & discharge at +25 ±2°C for battery system at beginning life. System Usable Energy may vary with different Inverter.

*2: Test conditions, 90% DOD, 0.5C charge & discharge at +25 ±2°C.

*3: Nominal Dis- / Charge Current and power derating will occur related to Temperature and SOC.

*: Please visit GoodWe website for the latest certificates.