

Low Voltage Battery 5 to 20 kWh

Ai-LB-G3 Series



Models:
ASW5120-LB-G3



Optimal performance

- Low self and standby consumption
- Enhanced SOC measurement accuracy for optimal battery management
- Supports up to 1C charge / discharge rate



Safe & Reliable


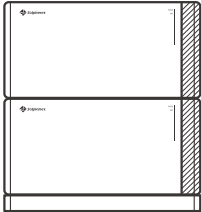
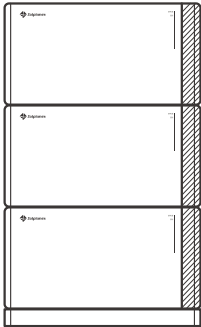
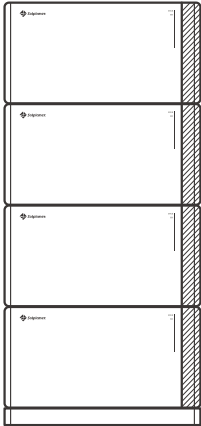
- IP66 rated design for indoor and outdoor use
- Designed in accordance with global safety standards
- Integrated fire suppression system
- Smarter and safer battery management system for precise diagnostics
- Integrated MOSFET and dual fuse protection for superior safety and reliability



User-friendly

- Stackable up to 4 modules, 20.48 kWh per tower
- Elegant design with concealed cable management
- Compact, lightweight modules for easier handling and installation
- 5 selections for operating (LED) indicator via Solplanet App

Technical Datasheet

Battery module		ASW5120-LB-G3			
Module number		1	2	3	4
Module number					
Cell type	LiFePO4				
Rated capacity	100 Ah				
Nominal energy ¹	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	
Usable energy ²	4.86 kWh	9.72 kWh	14.59 kWh	19.45 kWh	
Nominal battery voltage	51.2 V				
Battery voltage range	40 V ~ 58.4 V				
Recommended charge / discharge current	60 A	120 A	180 A	210 A	
Max. charge / discharge current	100 A	200 A	210 A	210 A	
Rated charge / discharge power	3.07 kW	6.14 kW	9.22 kW	10.75 kW	
Max. charge / discharge power	5.12 kW	10.24 kW	10.75 kW	10.75 kW	
Dimensions (W / D / H)	630 / 185 / 320 mm	630 / 185 / 640 mm	630 / 185 / 960 mm	630 / 185 / 1280 mm	
Module weight	46.0 kg	92.0 kg	138.0 kg	184.0 kg	
Base weight	2.6 kg				
Installation location	Indoor / Outdoor				
Mounting method	Floor mounted / Wall mounted				
Operating temperature range	Charging: -8 °C ~ 58 °C Discharging: -18 °C ~ 58 °C				
Storage temperature range	-20°C ~ 60°C				
Cooling concept	Natural convection				
Protective class	II				
Degree of protection	IP66				
Relative humidity	5 % ~ 95 % RH, non-condensing				
Max. operating altitude	4000 m (> 3000 m derating)				
Communication	CAN				
Certification	IEC 62619, IEC 62040, IEC 62477, IEC 63056, IEC 61000				
Life cycle ³	6000 times				
Round-trip efficiency	≥ 95 %				

1. Nominal energy is defined under the following conditions: battery voltage 40 ~ 58.4V, 0.5C charge & discharge at +25 °C.

2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25 °C, 95 % DOD.

3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25 °C (One cycle a day), 90 % DOD, 70 % EOL.

*For reference only. Please refer to the official release for final content.

