Low Voltage Battery 5 to 20 kWh

Ai-LB-G3 Series



Model:
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

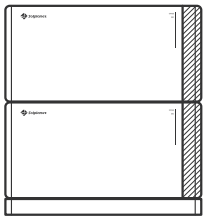
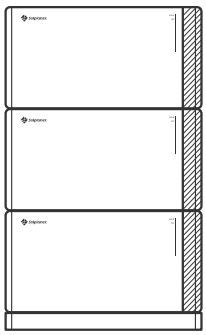
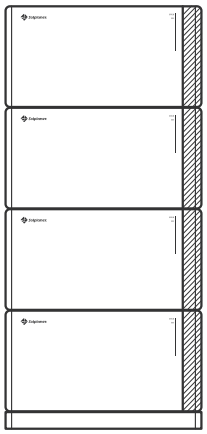
- IP66 rated design for indoor and outdoor use
- Designed in accordance with global safety standards
- Integrated fire suppression system
- Smarter and safer battery management system for precise diagnostics
- Integrated MOSFET and dual fuse protection for superior safety and reliability

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

ASW5120-LB-G3

System Data	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]	5.12 kWh	10.24 kWh	15.36 kWh	20.48 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
General Data	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 %, non-condensing			
	Max. operating altitude	4000 m (> 3000 m derating)			
	Communication	CAN			
	Country of manufacture	China			
	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 V - 58.4 V, 0.5C charge & discharge at +25°C.
2. Usable energy is defined under the following conditions: 0.2C charge & discharge at +25°C, 100% 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.