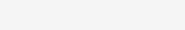
Ai-LB-E Series



Models: ASW5120-LB-E





Optimal Performance

- LFP safe technnology, long cyclelife, high efficiency and high power density
- Supports up to 1C charge / discharge rate with short-term 2C overload
- Cell level monitoring and balancing



Safe & reliable

- Smarter and safer battery management system for precise diagnostics
- Provides complete protection to keep battery healthy and safe
- Designed in accordance with global safety standards

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User-friendly

- Stackable and expandable up to 163.48 kWh (supporting 8 modules per unit, 4 units in parallel)
- Streamlined design for easier handling
- Various mounting methods: wall-mounted, floor-standing, and racked



Technical Datasheet

Teermed Buttoneet		
	Battery module	ASW5120-LB-E
	Cell type	LiFePO4
	Rated capacity	100 Ah (≥ 100 Ah)
System Data	Nominal energy ¹	5.12 kWh
	Usable energy ²	4.6 kWh
	Nominal voltage	51.2 V
	Battery voltage range	43.2 V - 57.6 V
	Recommended charge / discharge current	60 A
	Peak discharge current	200 A @ 3 s
	Max. charge / discharge current	100 A / 100 A
ster	Max. charge / discharge power	5.12 kW
Sy	Peak discharge power	10.24 kW @ 3 s
	Dimensions (W / D / H)	390 / 500 / 155 mm
	Weight	43.0 kg
General Data	Installation location	Indoor
	Mounting method	Floor mounted / Wall mounted / Rack mounted
	Operating temperature range	Charge: 2°C ~ 58°C Discharge: -18°C ~ 58°C
	Storage temperature range	-20°C ~ 45°C
	Cooling concept	Natural convection
	Protective class	II
	Degree of protection	IP20
	Relative humidity	5%~95%, non-condensing
	Max. operating altitude	3000 m (> 2000 m derating)
	Scalability	Max. 32 sets in parallel
	Communication	CAN
	Certification	IEC62619 / IEC61000 / UN38.3
	Life cycle	6000 times
	Round-trip efficiency	≥95%
	Warranty	7 years: ● 10 years: O ³

- 1. Nominal energy is defined under the following conditions: battery voltage 43.2 V 57.6 V, 0.2C charge / discharge at +25°C.
- 2. Usable energy is defined under the following conditions: 90% DOD, 0.2C charge / discharge at ± 25 °C.
- 3. 10 years warranty is optional when bundled with built-in fire suppression functionality.

