Low Voltage Battery 5.12kWh

# **Ai-LB-E Series**



Model: ASW5120-LB-E



## **Optimal Performance**

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



#### Safe & Reliable

- Smarter and safer battery management system for precise diagnostics
- battery healthy and safe
- Designed in accordance with global safety standards



### **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

Technical Datasneet		
System Data	Battery module	ASW5120-LB-E
	Cell type	LiFePO4
	Rated capacity	100 Ah (≥ 100 Ah)
	Rated energy <sup>1</sup>	5.12 kWh
	Usable energy <sup>2</sup>	4.6 kWh
	Nominal battery voltage	51.2 V
	Cell voltage range	2.5 V ~ 3.65 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
	Max. charge / discharge power	5.12 kW
	Peak discharge power	10.24 kW @ 3 s
General Data	Dimensions (W / D / H)	390 / 500 / 155 mm
	Weight	43.0 kg
	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	ll
	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	IEC 62619 / EMC / UN 38.3
	Life cycle <sup>3</sup>	6000 times
	Round-trip efficiency	≥95%
	Standby power	< 1 W
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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. Life cycle is defined under the following conditions: 80% DOD, 70% EOL, 0.2C charge / discharge at 25 °C (One cycle a day).

This page is for reference purposes only. Please refer to the final installation manual and other documents included with th the most up-to-date and detailed product information.



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