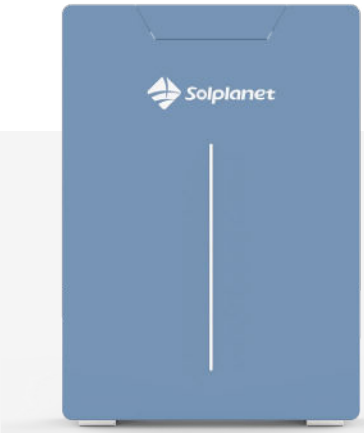
Low Voltage Battery 5 to 10 kWh

Ai-LB Pro Series





Models:
Ai-LB 5K Pro
Ai-LB 10K Pro

Efficient and Intelligent

- Max. discharging rate up to 1C.
- Expandable up to 160 kWh (32 units for Ai-LB 5K Pro and 16 units for Ai-LB 10K Pro in parallel)
- Automatic identification of parallel master and slave machines
- Online monitoring via Solplanet apps

Safe and Reliable

- LFP safe technology
- All-round BMS protection
- High quality cell inside
- IP65 rated design for outdoor use

Widely Applicable

- Charging at low temperature -5°C
- Multi-use applications: self-consumption, peak shaving, time of use tariffs

User-friendly

- Elegant design with hidden cable connection
- Compact and lightweight design
- Floor/wall mounted, stackable design, easy to install with basic tools

Technical Datasheet

		Ai-LB 5K Pro	Ai-LB 10K Pro
System Data	Cell type	LiFePO4	
	Rated capacity	100 Ah	200 Ah
	Nominal energy[1]	5.12 kWh	10.24 kWh
	Usable energy[2]	4.61 kWh	9.22 kWh
	Nominal battery voltage	51.2 V	
	Battery voltage range	44.8 V - 58.4 V	
	Max. charging / discharging current	0.6 C,60 A / 1 C,100 A	0.6 C,120 A / 0.6 C,120 A
	Rated charging/discharging power	3.07 kW	6.14 kW
	Max. charging / discharging power	3.07 kW / 5.12 kW	6.14 kW / 6.14 kW
General Data	Dimensions(W/D/H)	460 / 165 / 652 mm	550 / 165 / 867 mm
	Weight	50 kg	94 kg
	Installation location	indoor / outdoor	
	Mounting method	Floor mounted / Wall mounted	
	Operating temperature range	Charging: -5°C ~ 55°C Discharge: -15°C ~ 55°C	
	Storage temperature range	-10°C - 50°C	
	Cooling concept	Natural convection	
	Degree of protection	IP65	
	Relative humidity	5% - 95% RH, non-condensing	
	Max. operating altitude	3000m	
	Scalability	Max.32 sets in parallel	Max.16 sets in parallel
	Communication	CAN / RS485 / Dry Contact / WiFi	
	Certification	TUV / IEC 62619 / IEC 62040 / IEC 61000 / UN38.3	
	Life cycle[3]	6000 times	
	Round-trip efficiency	≥ 95%	

1. Nominal energy is defined under the following conditions: battery voltage 44~58.4V, 0.5C charge & discharge at +25°C.
2. Usable energy is defined under the following conditions: 90% DOD, 0.5C charge & discharge at +25°C.
3. Life cycle is defined under the following conditions: 70 % DOD, 0.5C charge & discharge at 25°C (One cycle a day).

Version: Mar 2024