

Low Voltage Battery 5 to 10 kWh

Ai-LB Series



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



Safety

- LFP safe technology
- All-round BMS protection



Reliable

- IP65 rated design for outdoor use
- High quality cell inside



User-friendly

- Supporting Multi-use applications
- Online monitoring via Solplanet apps

Technical Datasheet

Ai-LB 5K

Ai-LB 10K

| | Ai-LB 5K | Ai-LB 10K | |
|-----------------------|-------------------------------------|---|--------------------------|
| System Data | Cell type | LiFePO4 | |
| | Battery module | LB51100A | |
| | Module number | 1 | 2 |
| | 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 - 57.6 V | |
| | Max. charging / discharging current | 50 A | 100 A |
| | Rated charging / discharging power | 2.56 kW | 5.12 kW |
| | Max. charging / discharging power | 2.56 kW | 5.12 kW |
| General Data | Dimensions(W/D/H) | 490 / 150 / 680 mm | 640 / 181 / 1017 mm |
| | Module weight | 44.5 kg | |
| | Weight | 57 kg | 116 kg |
| | Installation location | indoor / outdoor | |
| | Mounting method | Floor stand | Floor stand / Wall Mount |
| | Operating temperature range | Charge: 0°C ~ 55°C Discharge: -20°C ~ 55°C | |
| | Storage temperature range | -20°C ~ 55°C | |
| | Cooling concept | Natural convection | |
| | Degree of protection | IP65 | |
| | Relative humidity | 5%~95%, non-condensing | |
| | Max. operating altitude | 3000m | |
| | Scalability | Max.8 sets in parallel | Max.4 sets in parallel |
| | Communication | CAN | |
| | 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 44.8~57.6V, 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).

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