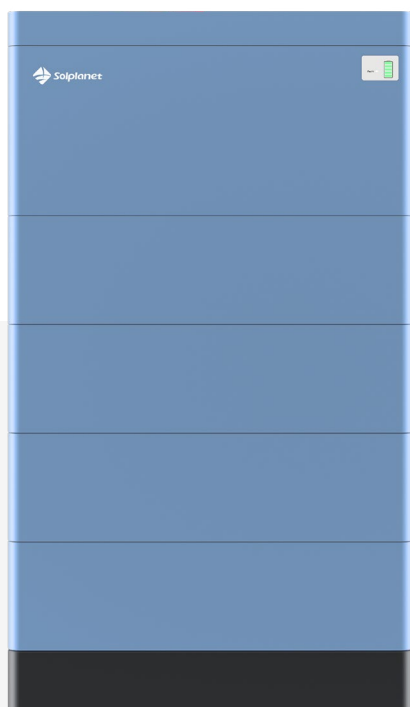


High Voltage Battery 7.5 to 25 kWh

Ai-HB Series



Model:
Ai-HB 2.56LG



Safety

- LFP safe technology
- All-round BMS protection
- Modular design with simple cable connections



Reliable

- IP65 rated design
- High quality cell inside



User-friendly

- Expandable up to 25.6 kWh (10 modules)
- Multi-use applications: self-consumption, peak shaving, time of use tariffs
- Online monitoring via Solplanet apps

Technical Datasheet

| | | | | | | | | | |
|-------------------------------------|--|---------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| System Data | Battery module | Ai-HB 2.56LG | | | | | | | |
| | Cell type | LiFePO4 | | | | | | | |
| | Module quantity | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Nominal energy ¹ | 7.68 kWh | 10.24 kWh | 12.8 kWh | 15.36 kWh | 17.92 kWh | 20.48 kWh | 23.04 kWh | 25.6 kWh |
| | Usable energy ² | 6.91 kWh | 9.21 kWh | 11.52 kWh | 13.82 kWh | 16.12 kWh | 18.43 kWh | 20.73 kWh | 23.04 kWh |
| | Nominal voltage | 153.6 V | 204.8 V | 256 V | 307.2 V | 358.4 V | 409.6 V | 460.8 V | 512 V |
| | Operating voltage | 134.4 V | 179.2 V | 224 V | 268.8 V | 313.6 V | 358.4 V | 403.2 V | 448 V |
| | | ~ 168.4 V | ~ 224.64 V | ~ 280.8 V | ~ 336.96 V | ~ 393.12 V | ~ 449.28 V | ~ 505.44 V | ~ 561.6 V |
| | Nominal charging / discharging current | 25 A | | | | | | | |
| Max. charging / discharging current | 50 A | | | | | | | | |
| General Data | Dimensions (W/D/H) | 600/210/820 mm | 600/210/980 mm | 600/210/1140 mm | 600/210/1300 mm | 600/210/1460 mm | 600/210/1620 mm | 600/210/1780 mm | 600/210/1940 mm |
| | Weight | 102.5 kg | 129 kg | 155.5 kg | 182 kg | 208.5 kg | 235 kg | 261.5 kg | 288 kg |
| | Battery module weight | 26.5 kg | | | | | | | |
| | Installation location | Indoor | | | | | | | |
| | Mounting method | Floor mounted | | | | | | | |
| | Operating temperature range | Charge: 0°C ~ 55 °C | | | | | | | |
| | | Discharge: -20 °C ~ 55 °C | | | | | | | |
| | Storage temperature range | -20 °C ~ 45 °C | | | | | | | |
| | Cooling concept | Natural convection | | | | | | | |
| | Degree of protection | IP65 | | | | | | | |
| | Relative humidity | 5%~95 %, non-condensing | | | | | | | |
| | Communication | RS485 / CAN | | | | | | | |
| | Certification | IEC 62619 / EN 61000 | | | | | | | |
| IEC 62040 / UN38.3 | | | | | | | | | |
| Life cycle ³ | 6000 times | | | | | | | | |

1. Nominal energy is defined under the following conditions: cell voltage 2.5~3.65V, 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. Usable energy may vary depending on discharge, charge, environmental conditions and SOC % limits defined by the user.

3. Life cycle is defined under the following conditions: 80 % DOD, 0.2C charge & discharge at +25°C.

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