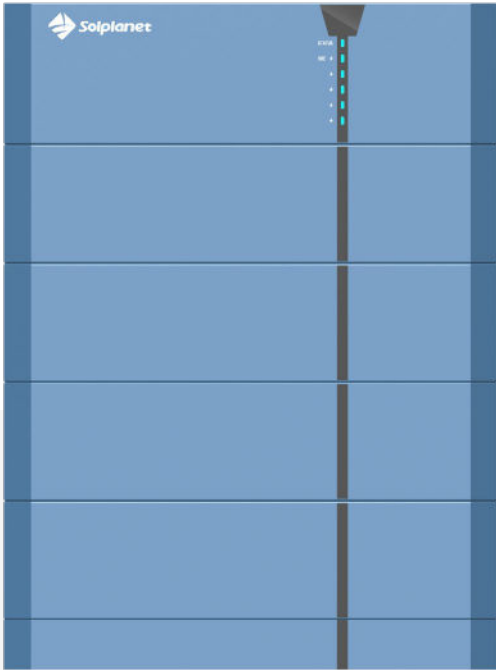


High Voltage Battery 7.5 to 20 kWh

# Ai-HB G2 Series



Models:

|            |            |
|------------|------------|
| Ai-HB 075A | Ai-HB 150A |
| Ai-HB 100A | Ai-HB 175A |
| Ai-HB 125A | Ai-HB 200A |



## Safety

- Modular design with plug-in connections
- Quick connections between battery and inverter
- Quick & easy-to-install with basic tools
- Steady and anti-dumping design



## Reliable

- IP65 rated design
- Cell-level monitoring
- LFP safe technology
- All-round BMS protection



## User-friendly

- Stackable and Expandable up to 20.48 kWh (supporting 8 modules per unit)
- Multi-use applications: self-consumption, peak shaving, time of use tariffs
- Online monitoring via Solplanet apps

# Technical Datasheet

Ai-HB 075A

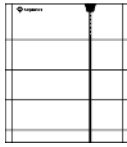
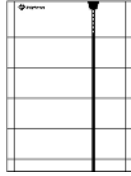
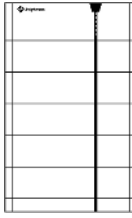

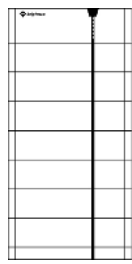
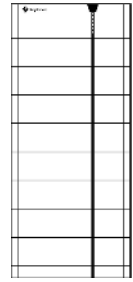
Ai-HB 100A

Ai-HB 125A

Ai-HB 150A

Ai-HB 175A

Ai-HB 200A

|                                    |   |   |   |  |   |   |
|------------------------------------|---|---|---|--|---|---|
| Battery designation                |  |  |  |  |  |  |
| Battery module                     | HB051050A   |   |   |  |   |   |
| Cell type                          | LiFePO4   |   |   |  |   |   |
| Module quantity                    | 3   | 4   | 5   | 6  | 7   | 8   |
| Rated capacity                     | 50 Ah   |   |   |  |   |   |
| Nominal energy <sup>1</sup>        | 7.68 kWh  | 10.24 kWh   | 12.8 kWh  | 15.36 kWh  | 17.92 kWh   | 20.48 kWh   |
| Usable energy <sup>2</sup>         | 6.91 kWh  | 9.21 kWh  | 11.52 kWh   | 13.82 kWh  | 16.12 kWh   | 18.43 kWh   |
| Nominal voltage                    | 153.6 V   | 204.8 V   | 256 V   | 307.2 V  | 358.4 V   | 409.6 V   |
| Operating voltage                  | 120 V ~ 175.2 V   | 160 V ~ 233.6 V   | 200 V ~ 292 V   | 240 V ~ 350.4 V  | 280 V ~ 408.8 V   | 320 V ~ 467.2 V   |
| Max.charging current               | 25 A  |   |   |  |   |   |
| Max.discharging current            | 30 A  |   |   |  |   |   |
| Rated charging / discharging power | 3.84kW  | 5.12 kW   | 6.40 kW   | 7.68 kW  | 8.86 kW   | 10.24 kW  |
| Max.charging power                 | 3.84kW  | 5.12 kW   | 6.40 kW   | 7.68 kW  | 8.86 kW   | 10.24 kW  |
| Max.discharging power              | 4.61 kW   | 6.14 kW   | 7.68 kW   | 9.22 kW  | 10.75 kW  | 12.29 kW  |
| Dimensions (W / D / H)             | 540*390*600 mm  | 540*390*730 mm  | 540*390*860 mm  | 540*390*990 mm   | 540*390*1120 mm   | 540*390*1250 mm   |
| Weight                             | 106.5 kg  | 137 kg  | 167.5 kg  | 198 kg   | 228.5 kg  | 259 kg  |
| Battery module weight              | 30.5 kg   |   |   |  |   |   |
| Installation location              | Indoor / Outdoor  |   |   |  |   |   |
| Mounting method                    | Floor mounted   |   |   |  |   |   |
| Operating temperature range        | Charge: 0 ~ 50 °C<br>Discharge: -20 °C ~ 50 °C                                    |   |   |  |   |   |
| Storage temperature range          | -20 °C ~ 45 °C  |   |   |  |   |   |
| Cooling concept                    | Natural convection  |   |   |  |   |   |
| Degree of protection               | IP65  |   |   |  |   |   |
| Relative humidity                  | 5 ~ 95 %, non - condensing  |   |   |  |   |   |
| Communication                      | CAN   |   |   |  |   |   |
| Certification                      | IEC 62619 / EN 61000<br>IEC 62040 / UN38.3  |   |   |  |   |   |
| Life cycle <sup>3</sup>            | 6000 times  |   |   |  |   |   |
| Round-trip efficiency              | ≥95%  |   |   |  |   |   |

System Data

General Data

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.

