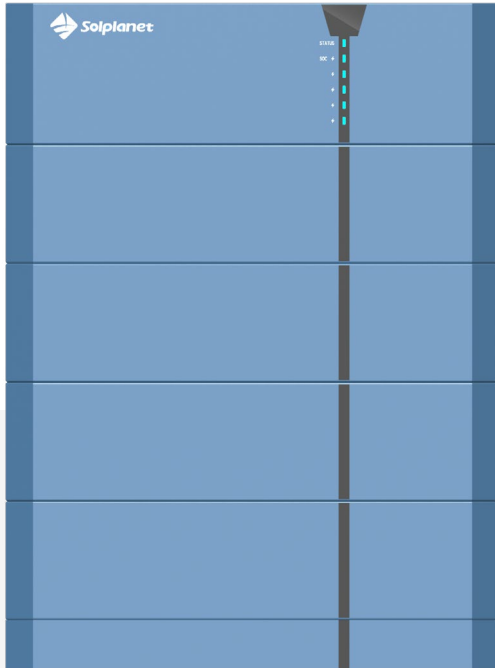


High Voltage Battery 7.5 to 20 kWh

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 81.92 kWh (supporting 8 modules per unit, 4 units in parallel)
- Multi-use applications: self-consumption, time of use tariffs, customisation
- 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

System Data	Battery designation						
	Battery module	HB051050A					
	Cell type	LiFePO4					
	Module quantity	3	4	5	6	7	8
	Rated capacity	50 Ah					
	Nominal energy ¹	7.68 kWh	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh
	Usable energy ²	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 range	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
General Data	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 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	CAN					
	Certification	IEC 62619 / EN 61000 IEC 62040 / UN38.3					
	Life cycle ³	6000 times					
	Protection	Charging over-voltage protection, discharging under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, built-in fire suppression ⁴ , etc					
Round-trip efficiency	≥95%						

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: 0.5C charge & discharge at +25°C, 90% DOD. 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: 0.5C charge & discharge at +25°C, 90% DOD, 70% EOL

4. Available with or without built-in fire suppression functionality, this feature was released in August 2024, please confirm version with Solplanet sales before purchase.

Version: Mar 2025

