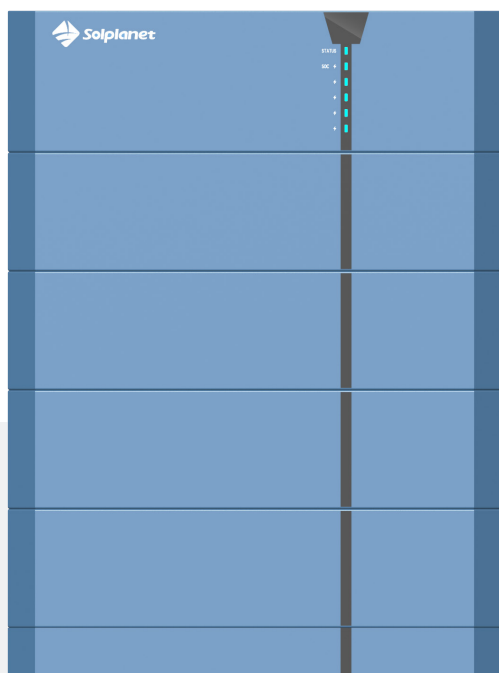


High Voltage Battery 5 to 20 kWh

Ai-HB G2 Series



Models:

Ai-HB 050B	Ai-HB 150B
Ai-HB 075B	Ai-HB 175B
Ai-HB 100B	Ai-HB 200B
Ai-HB 125B	



Easy-to-install

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



Safe & Reliable

- IP65 rated design
- Cell-level monitoring
- LFP safe technology



User-friendly

- Stackable and expandable up to 163.84 kWh (supporting 8 modules per unit, 8 units in parallel)
- Multi-use applications: self-consumption, time of use tariffs, customisation
- Smart setup, commissioning and monitoring via Solplanet App

Technical Datasheet

Ai-HB 050B

Ai-HB 075B

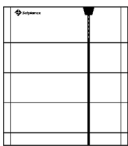
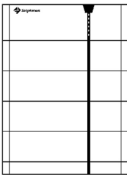
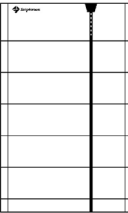
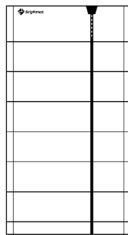
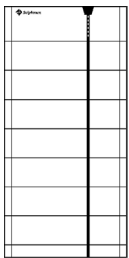
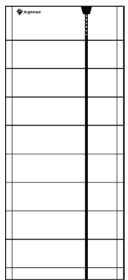
Ai-HB 100B

Ai-HB 125B

Ai-HB 150B

Ai-HB 175B

Ai-HB 200B

System Data	Battery designation							
	Battery module	HB051050A						
	Cell type	LiFePO4						
	Module quantity	2	3	4	5	6	7	8
	Rated capacity	50 Ah						
	Nominal energy ¹	5.12 kWh	7.68 kWh	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh
	Usable energy ²	5.12 kWh	7.68 kWh	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh
	Nominal voltage	102.4 V	153.6 V	204.8 V	256 V	307.2 V	358.4 V	409.6 V
	Battery voltage range	96 V - 115.2 V	144 V - 172.8 V	192 V - 230.4 V	240 V - 288 V	288 V - 345.6 V	336 V - 403.2 V	384 V - 460.8 V
	Recommended charge / discharge current	25 A / 30 A						
	Max. charge / discharge current	25 A / 30 A						
	Rated DC power	2.56 kW	3.84 kW	5.12 kW	6.40 kW	7.68 kW	8.86 kW	10.24 kW
	Rated charging / discharging power	2.56 kW	3.84 kW	5.12 kW	6.40 kW	7.68 kW	8.86 kW	10.24 kW
	Max.charging power	2.56 kW	3.84 kW	5.12 kW	6.40 kW	7.68 kW	8.86 kW	10.24 kW
	Max.discharging power	3.08 kW	4.61 kW	6.14 kW	7.68 kW	9.22 kW	10.75 kW	12.29 kW
General Data	Dimensions (W / D / H)	540/390/470 mm	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	76.0 kg	106.5 kg	137.0 kg	167.5 kg	198 kg	228.5 kg	259.0 kg
	Battery module weight	30.5 kg						
	Installation location	Indoor / Outdoor						
	Mounting method	Floor mounted						
	Operating temperature range	Charge: 0 °C ~ 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						
	Max. operating altitude	3000 m (> 2000 m derating)						
	Communication	CAN						
	Country of manufacture	China						
	Certification	IEC 62619, EN 61000, IEC 62040, UN38.3						
	Cycle Life 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, 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: 0.2C charge & discharge at 25°C, 100% DOD. Usable energy may vary depending on discharge, charge, environmental conditions and SOC % limits defined by the user.

3. Cycle life is defined under the following conditions: 0.5C charge & discharge at 25 °C 90 % DOD, 70 % EOL.

