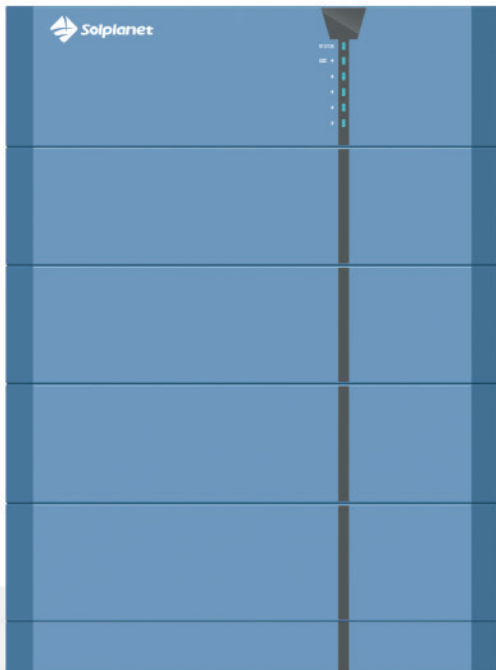


Ai-HB G2 Series



Models:

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



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 050A

Ai-HB 075A

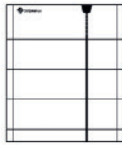
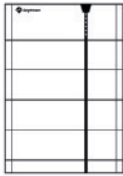
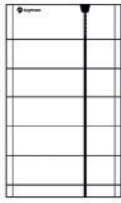
Ai-HB 100A

Ai-HB 125A

Ai-HB 150A

Ai-HB 175A

Ai-HB 200A

System Data	Battery designation							
	Battery module	HB051050A						
	Cell type	LiFePO4						
	Module quantity	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	4.60 kWh	6.91 kWh	9.21 kWh	11.52 kWh	13.82 kWh	16.12 kWh	18.43 kWh
	Nominal voltage	102.4 V	153.6 V	204.8 V	256.0 V	307.2 V	358.4 V	409.6 V
	Battery voltage range	80 V - 116.8 V	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
	Recommended charge / discharge current	25 A / 30 A						
	Max. charge / discharge current	25 A / 30 A						
	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	198.0 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						
	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 - 3.65 V, 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.