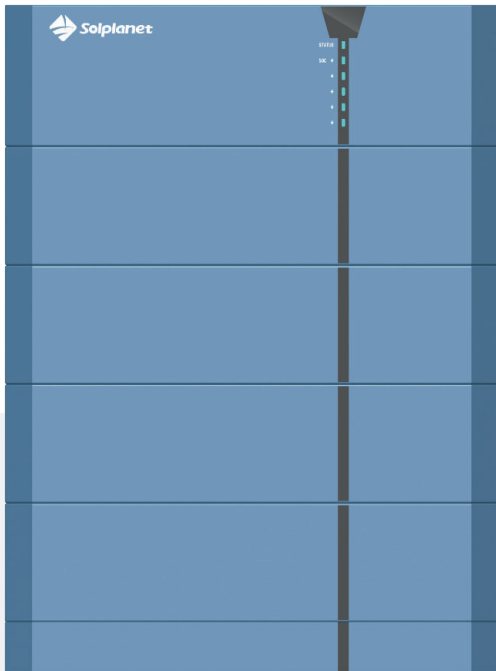


High Voltage Battery 7.5 to 20 kWh

Ai-HB G2 Pro Series



Models:

Ai-HB Pro 075A

Ai-HB Pro 100A

Ai-HB Pro 125A

Ai-HB Pro 150A

Ai-HB Pro 175A

Ai-HB Pro 200A



Optimal performance

- Up to 1C charge / discharge rate
- Stackable and expandable up to 81.92 kWh (supporting 8 modules per unit, 4 units in parallel)
- IP65 rated design for indoor and outdoor use
- Multi-use applications: self-consumption, time of use tariffs, customisation



Safe & reliable

- VDE-compliant with enhanced protection
- Smarter and safer battery management system for precise diagnostics
- LFP safe technology with long lifespan
- Built-in emergency fire suppression module



User-friendly

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



solplanet.net

@Solplanet



Technical Datasheet

Ai-HB Pro 075A

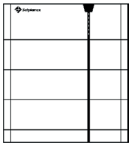
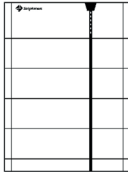
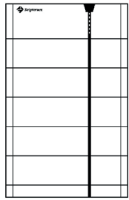
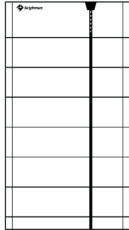
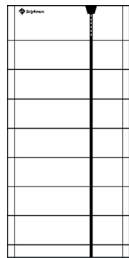
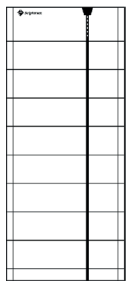
Ai-HB Pro 100A

Ai-HB Pro 125A

Ai-HB Pro 150A

Ai-HB Pro 175A

Ai-HB Pro 200A

System Data	Battery designation						
	Battery module	HB051050B					
	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	7.29 kWh	9.72 kWh	12.16 kWh	14.59 kWh	17.02 kWh	19.45 kWh
	Nominal voltage	153.6 V	204.8 V	256.0 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	50 A					
	Max.discharging current	50 A					
	Rated charging / discharging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
	Max.charging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
	Max.discharging power	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 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	109.0 kg	140.0 kg	171.0 kg	202.0 kg	233.0 kg	264.0 kg
	Battery module weight	31.0 kg					
	Installation location	Indoor / Outdoor					
	Mounting method	Floor mounted					
	Operating temperature range	Charge: 2 °C ~ 58 °C Discharge: -28 °C ~ 58 °C					
	Storage temperature range	-20 °C ~ 45 °C					
	Cooling concept	Natural convection					
	Degree of protection	IP65					
	Relative humidity	5 ~ 95 %, non - condensing					
	Communication	CAN					
	Protection	Charging over-voltage protection, discharging under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, built-in fire suppression, etc					
	Certification	IEC62619 / EN61000 / VDE2510-50 IEC62040 / UN38.3					
	Life cycle ³	8000 times					
	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: 95% 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: 90% DOD, 70% EOL, 0.2C charge / discharge at +25°C.

