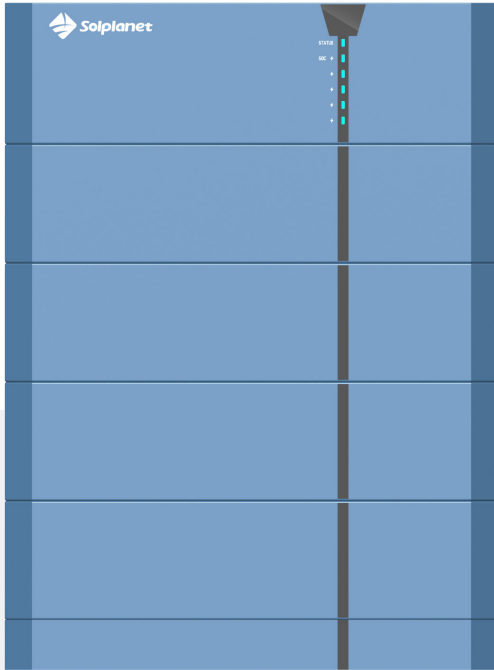


Ai-HB G2 Pro Series



Models:

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



Optimal performance

- Up to 1C charge / discharge rate
- Stackable and expandable up to 163 kWh (supporting 8 modules per unit, 8 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 fire suppression functionality



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

Technical Datasheet

Ai-HB Pro 050A

Ai-HB Pro 075A


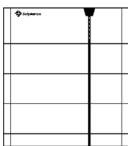
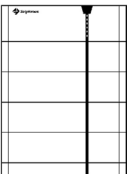
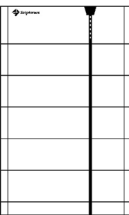
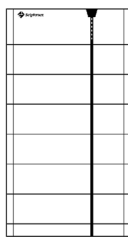
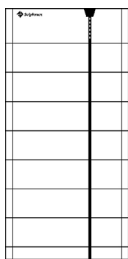
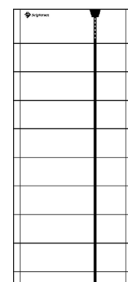
Ai-HB Pro 100A

Ai-HB Pro 125A

Ai-HB Pro 150A

Ai-HB Pro 175A

Ai-HB Pro 200A

Battery designation							
Cell type	LiFePO4						
Battery module	HB051050B						
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	4.86 kWh	7.29 kWh	9.72 kWh	12.16 kWh	14.59 kWh	17.02 kWh	19.45 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	50 A / 50 A						
Max. charge / discharge current	50 A / 50 A						
Rated charging / discharging power	5.12 kW	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
Max.charging power	5.12 kW	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
Max.discharging power	5.12 kW	7.68kW	10.24kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
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	78.0 kg	109.0 kg	140.0 kg	171.0 kg	202.0 kg	233.0 kg	264.0 kg
Battery module weight	31.0 kg						
Depth of discharge	95%						
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						
Max. operating altitude	3000 m (> 2000 m derating)						
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.

