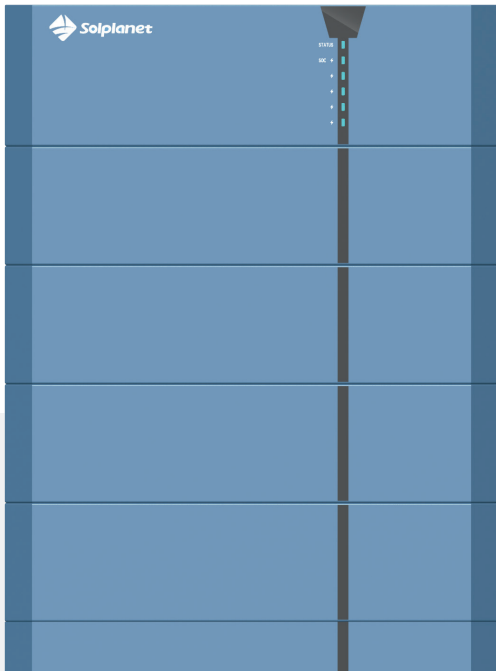


High Voltage Battery 5 to 20 kWh

Ai-HB G2 Pro Series



Models:

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



Optimal performance

- Up to 1C charge / discharge rate
- Stackable and expandable up to 163.84 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

System Data	Battery designation							
	Battery module	HB051050B						
	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	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 - 106.8 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 charge / discharge power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
	Max.charging power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW
	Max.discharging power	5.12 kW	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 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	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	95.0 %						
	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						
	Certificate	IEC62619 / EN61000 / VDE2510-50 IEC62040 / UN38.3						
	Cycle life ³	8000 times						
	Round-trip efficiency	≥ 95 %						

1. Nominal energy is defined under the following conditions: cell voltage 2.5 V - 3.65 V, 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. Cycle life is defined under the following conditions: 90% DOD, 70% EOL, 0.2C charge / discharge at 25°C.

* Parallel expansion is only supported within same series models.

