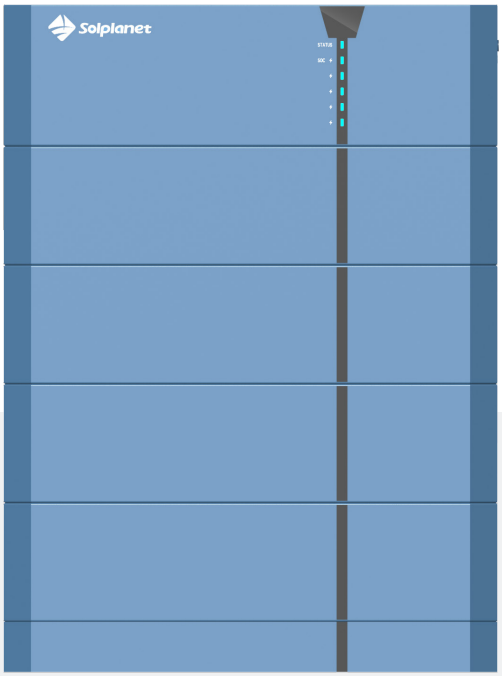
High Voltage Battery 5 to 20 kWh

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 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

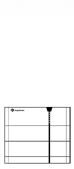
Safe & reliable

- 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 050A PRO[5]	Ai-HB 075A PRO	Ai-HB 100A PRO	Ai-HB 125A PRO	Ai-HB 150A PRO	Ai-HB 175A PRO	Ai-HB 200A PRO
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	12.80 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 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	200 V ~ 292 V	280 V ~ 408.8 V	320 V ~ 467.2 V
	Max. charge / discharge current	50 A						
	Max. charging / discharging power	5.12 kW	7.68 kW	10.24 kW	12.80 kW	15.36 kW	17.92 kW	20.48 kW
Compatible inverters	Rated charging / discharging power with a compatible Solplanet inverter							
	ASW05kH-T2	3.07 kW	4.61 kW	5.00 kW	5.00 kW	5.00 kW	5.00 kW	5.00 kW
	ASW06kH-T2	3.07 kW	4.61 kW	6.00 kW	6.00 kW	6.00 kW	6.00 kW	6.00 kW
	ASW08kH-T2. ASW08kH-T3	3.07 kW	4.61 kW	6.14 kW	7.68 kW	8.00 kW	8.00 kW	8.00 kW
	ASW10kH-T2. ASW10kH-T3	3.07 kW	4.61 kW	6.14 kW	7.68 kW	9.22 kW	10.00 kW	10.00 kW
	ASW12kH-T2. ASW12kH-T3	3.07 kW	4.61 kW	6.14 kW	7.68 kW	9.22 kW	10.75 kW	12.00 kW
	ASW05kH-T2 DG	5.00 kW	5.00 kW	5.00 kW	5.00 kW	5.00 kW	5.00 kW	5.00 kW
	ASW06kH-T2 DG	5.12 kW	6.00 kW	6.00 kW	6.00 kW	6.00 kW	6.00 kW	6.00 kW
	ASW08kH-T2 DG, ASW08kH-T3 DG	5.12 kW	7.68 kW	8.00 kW	8.00 kW	8.00 kW	8.00 kW	8.00 kW
	ASW10kH-T2 DG. ASW10kH-T3 DG	5.12 kW	7.68 kW	10.00 kW	10.00 kW	10.00 kW	10.00 kW	10.00 kW
	ASW12kH-T2 DG. ASW12kH-T3 DG	5.12 kW	7.68 kW	10.24 kW	12.00 kW	12.00 kW	12.00 kW	12.00 kW
	ASW15kH-T3-DG	5.12 kW	7.68 kW	10.24 kW	12.80 kW	15.00 kW	15.00 kW	15.00 kW
	ASW015k-TH	not available	7.68 kW	10.24 kW	12.80 kW	15.00 kW	15.00 kW	15.00 kW
	ASW020k-TH	not available	7.68 kW	10.24 kW	12.80 kW	15.36 kW	17.92 kW	20.00 kW
	ASW025k-TH. ASW029.9k-TH ASW030k-TH	not available	7.68 kW	10.24 kW	12.80 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	171.5 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 ~ 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						
	Certification	IEC 62619 / EN 61000 IEC 62040 / UN38.3						
	Life cycle[3]	8000 times						
	Protection	Charging over-voltage protection, discharging under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, built-in fire suppression[4],						
	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: 0.5C 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.
5. 2 battery modules work with ASW H-T2/T3 and ASW H-T2/T3 DG series inverters after updating the software to the latest version.