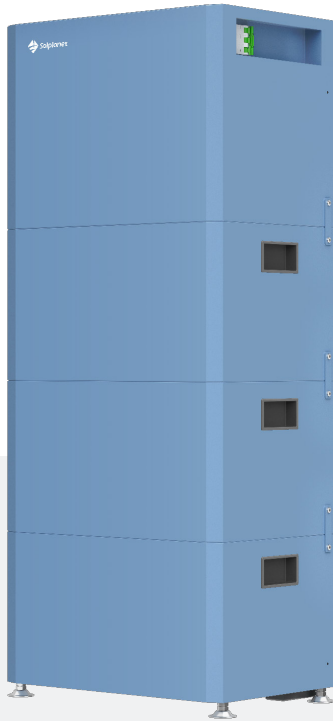


High Voltage Battery 5 to 20 kWh

Ai-HB G2-E Series



Models:

Ai-HB-E 050A

Ai-HB-E 100A

Ai-HB-E 150A

Ai-HB-E 200A



Safe

- LFP Technology with cell-level monitoring for precise alerts and maximum safety
- Built-in emergency fire suppression module for rapid response in critical situations
- Advanced BMS protects against overcharge, over-discharge, and short circuits



Reliable

- Robust anti-dumping design delivers secure installation and shock resistance
- Modular Plug-and-Play design supports flexible expansion (up to 8 units in parallel)
- Versatile applications for self-consumption, time-of-use tariffs, and customizable modes



User-friendly

- Stackable and expandable up to 163.84 kWh
- IP20 rating ensures safe and reliable operation in diverse indoor environments
- Real-time monitoring via Solplanet's App enables effortless control anytime, anywhere

Technical Datasheet

Ai-HB-E 050A

Ai-HB-E 100A

Ai-HB-E 150A

Ai-HB-E 200A

System Data	Battery designation				
	Battery module-Master	ASW5120M-HB-E			
	Battery module-Slave	ASW5120S-HB-E			
	Cell type	LiFePO4			
	Module quantity	1 Master	1 Master + 1 Slave	1 Master + 2 Slave	1 Master + 3 Slave
	Rated capacity	50 Ah			
	Nominal energy ¹	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
	Usable energy ²	4,60 kWh	9.21 kWh	13.82 kWh	18.43 kWh
	Nominal voltage	102.4 V	204.8 V	307.2 V	409.6 V
	Battery voltage range	96 V - 115.2 V	192 V - 230.4 V	288 V - 345.6 V	384 V - 460.8 V
	Max. charging current	50 A			
	Max. discharge current	5.12 kW	10.24 kW	15.36 kW	20.48 kW
Compatible inverters	Rated charging / discharging power with a compatible Solplanet inverter				
	ASW05kH-T2	3.07 kW	5.00 kW	5.00 kW	5.00 kW
	ASW06kH-T2	3.07 kW	6.00 kW	6.00 kW	6.00 kW
	ASW08kH-T2. ASW08kH-T3	3.07 kW	6.14 kW	8.00 kW	8.00 kW
	ASW10kH-T2. ASW10kH-T3	3.07 kW	6.14 kW	9.21 kW	10.00 kW
	ASW12kH-T2. ASW12kH-T3	3.07 kW	6.14 kW	9.21 kW	12.00 kW
	ASW05kH-T2-DG	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
	ASW08kH-T2-DG. ASW08kH-T3-DG	5.12 kW	8.00 kW	8.00 kW	8.00 kW
	ASW10kH-T2-DG. ASW10kH-T3-DG	5.12 kW	10.00 kW	10.00 kW	10.00 kW
	ASW12kH-T2-DG. ASW12kH-T3-DG	5.12 kW	10.24 kW	12.00 kW	12.00 kW
	ASW15kH-T3-DG	5.12 kW	10.24 kW	15.00 kW	15.00 kW
	ASW015k-TH	not available	10.24 kW	15.00 kW	15.00 kW
	ASW020k-TH	not available	10.24 kW	15.36 kW	20.00 kW
	ASW025k-TH. ASW029.9k-TH. ASW030k-TH	not available	10.24 kW	15.36 kW	20.48 kW
General Data	Dimensions including the base (W / D / H)	525 / 350 / 415 mm	525 / 350 / 700 mm	525 / 350 / 985 mm	525 / 350 / 1270 mm
	Weight	60.5 kg	116.0 kg	171.5 kg	227.0 kg
	Battery module weight	Indoor			
	Installation location	Floor mounted			
	Mounting method	Charge: 0 ~ 50 °C Discharge: -20 °C ~ 50 °C			
	Operating temperature range	-20 °C ~ 45 °C			
	Storage temperature range	Natural convection			
	Cooling concept	IP20			
	Degree of protection	5% - 95%, non-condensing			
	Relative humidity	CAN			
	Max. operating altitude	IEC 62619. EN 61000. UN38.3. IEC 62477			
	Life cycle ³	6000 times			
	Protection	Charging over-voltage protection, discharge under-voltage protection, over-current protection, over-temperature protection, short-circuit protection, fire suppression, etc			
	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: 90 % 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, 0.5C charge & discharge at +25 °C.

* Parallel expansion is only supported within the same model series.

