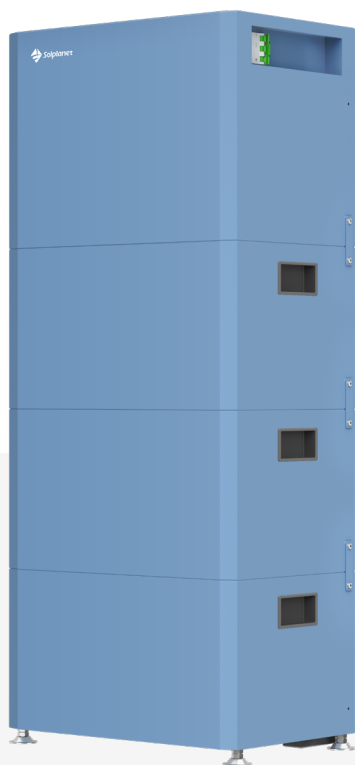


High Voltage Battery 5 to 20 kWh

Ai-HB G2-E Series



Models:

Ai-HB-E 050A

Ai-HB-E 100A

Ai-HB-E 150A

Ai-HB-E 200A



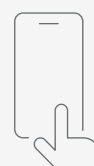
Safe

- 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

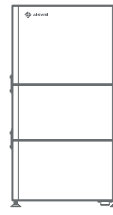
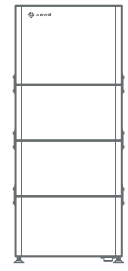
Technical Datasheet

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 Slaves	1 Master + 3 Slaves	
	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	
	Operating voltage range	96 V - 115.2 V	192 V - 230.4 V	288 V - 345.6 V	384 V - 460.8 V	
	Max. charge current	50 A				
	Max. discharge current	50 A				
	Rated charge /discharge power	5.12 kW	10.24 kW	15.36 kW	20.48 kW	
	Max.charge power	5.12 kW	10.24 kW	15.36 kW	20.48 kW	
	Max.discharge power	5.12 kW	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	
	Installation location	Indoor				
	Mounting method	Floor mounted				
	Operating temperature range	Charge: 0 °C ~ 50 °C Discharge: -20 °C ~ 50 °C				
	Storage temperature range	-20 °C ~ 45 °C				
	Cooling concept	Natural convection				
	Degree of protection	IP20				
	Relative humidity	5 % - 95 % (Non-condensing)				
	Communication	CAN				
	Certificate	IEC 62619, EN 61000, UN38.3, IEC 62477, CE				
	Protection	Charging over-voltage protection, discharge under-voltage protection, over-current protection, over-temperature protection ,short-circuit protection, fire suppression, etc				
	Cycle life ³	6000 times				
	Round-trip efficiency	≥ 95 %				

1. Nominal energy is defined under the following conditions: cell voltage 2.5 V - 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. Cycle life is defined under the following conditions: 90 % DOD, 70 % EOL, 0.5C charge & discharge at 25 °C.

* Parallel expansion is only supported within same series models.

