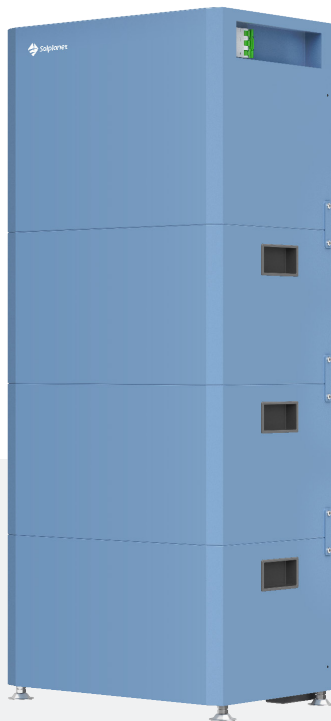


High Voltage Battery 5 to 20 kWh

# 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



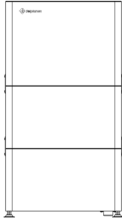
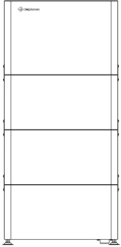
Technical Datasheet

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 <sup>1</sup>	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
	Usable energy <sup>2</sup>	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	50 A			
	Rated charging / discharging power	5.12 kW	10.24 kW	15.36 kW	20.48 kW
	Max.charging power	5.12 kW	10.24 kW	15.36 kW	20.48 kW
	Max.discharging 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			
	Certification	IEC 62619, EN 61000, UN38.3, IEC 62477			
	Protection	Charging over-voltage protection, discharge under-voltage protection, over-current protection, over-temperature protection ,short-circuit protection, fire suppression, etc			
	Life cycle <sup>3</sup>	6000 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: 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.

