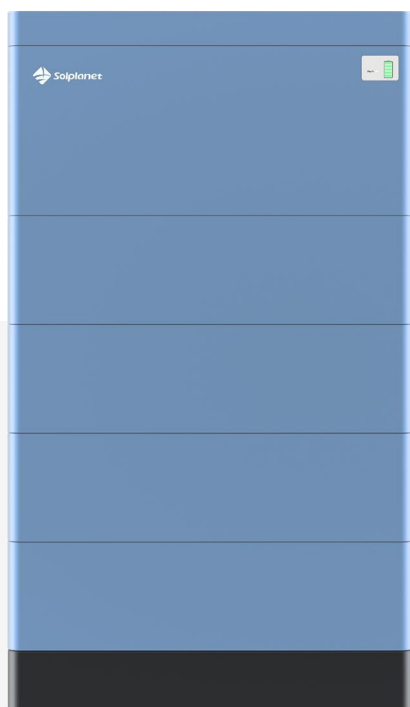


High Voltage Battery 7.5 to 25 kWh

Ai-HB Series



Model:
Ai-HB 2.56LG



Safety

- LFP safe technology
- All-round BMS protection
- Modular design with simple cable connections



Reliable

- IP65 rated design
- High quality cell inside



User-friendly

- Expandable up to 25.6 kWh (10 modules)
- Multi-use applications: self-consumption, peak shaving, time of use tariffs
- Online monitoring via Solplanet apps

Technical Datasheet

Battery module		Ai-HB 2.56LG							
Battery designation									
	Cell type	LiFePO4							
	Module quantity	3	4	5	6	7	8	9	10
	Rated capacity	50Ah							
	Nominal energy ¹	7.68 kWh	10.24 kWh	12.8 kWh	15.36 kWh	17.92 kWh	20.48 kWh	23.04 kWh	25.6 kWh
	Usable energy ²	6.91 kWh	9.21 kWh	11.52 kWh	13.82 kWh	16.12 kWh	18.43 kWh	20.73 kWh	23.04 kWh
	Nominal voltage	153.6 V	204.8 V	256 V	307.2 V	358.4 V	409.6 V	460.8 V	512 V
	Operating voltage	134.4 V	179.2 V	224 V	268.8 V	313.6 V	358.4 V	403.2 V	448 V
		~ 168.4 V	~ 224.64 V	~ 280.8 V	~ 336.96 V	~ 393.12 V	~ 449.28 V	~ 505.44 V	~ 561.6 V
	Nominal charging / discharging current	25 A							
Max. charging / discharging current	50 A								
Rated power	3.84kW	5.12 kW	6.4 kW	7.68 kW	8.86 kW	10.24 kW	11.52kW	12.8 kW	
Max. charging / discharging power	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	23.04 kW	25.6 kW	
General Data	Dimensions (W/D/H)	600/210/820 mm	600/210/980 mm	600/210/1140 mm	600/210/1300 mm	600/210/1460 mm	600/210/1620 mm	600/210/1780 mm	600/210/1940 mm
	Weight	102.5 kg	129 kg	155.5 kg	182 kg	208.5 kg	235 kg	261.5 kg	288 kg
	Battery module weight	26.5 kg							
	Installation location	Indoor							
	Mounting method	Floor mounted							
	Operating temperature range	Charge: 0°C ~ 55 °C Discharge: -20 °C ~ 55 °C							
	Storage temperature range	-20 °C ~ 45 °C							
	Cooling concept	Natural convection							
	Degree of protection	IP65							
	Relative humidity	5%~95 %, non-condensing							
	Communication	RS485 / CAN							
	Certification	IEC 62619 / EN 61000 IEC 62040 / UN38.3							
	Life cycle ³	6000 times							
	Round-trip efficiency	≥95%							

1. Nominal energy is defined under the following conditions: cell voltage 2.0~3.65V, 1C 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: 80 % DOD, 0.2C charge & discharge at +25°C.

Version: Jan 2024

