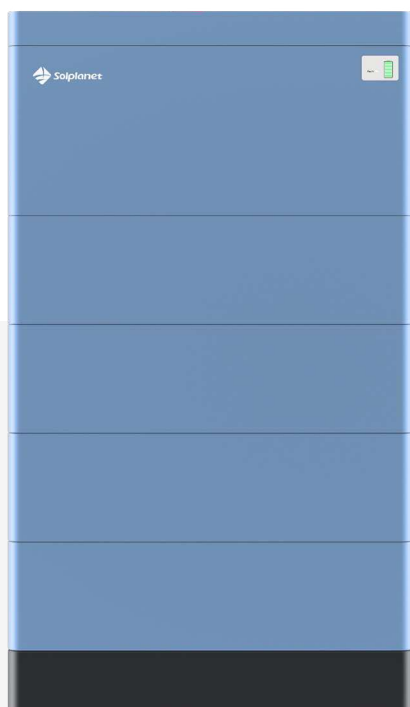


High Voltage Battery 7.5 to 25 kWh

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, time of use tariffs, customisation
- 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	
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 / Outdoor								
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: 90 % DOD, 80%EOL, 0.2C charge & discharge at +25°C.

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