

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 <sup>1</sup>	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 <sup>2</sup>	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								
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 <sup>3</sup>	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: May 2024

