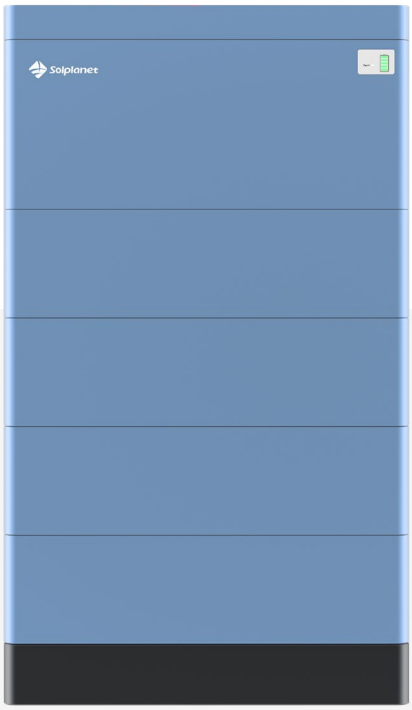
High Voltage Battery 7.5 to 25 kWh

High voltage Battery



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

System Data	Battery module	Ai-HB 2.56LG							
	Cell type	LiFePO4							
	Module quantity	3	4	5	6	7	8	9	10
	Nominal energy[1]	7.68 kW	10.24 kW	12.8 kW	15.36 kW	17.92 kW	20.48 kW	23.04 kW	25.6 kW
	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 ~ 168.4 V	179.2 V ~ 224.64 V	224 V ~ 280.8 V	268.8 V ~ 336.96 V	313.6 V ~ 393.12 V	358.4 V ~ 449.28 V	403.2 V ~ 505.44 V	448 V ~ 561.6 V
	Nominal charging / discharging current	25 A							
	Max. charging / discharging current	50 A							
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 ~ 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							

1. Nominal energy is defined under the following conditions: cell voltage 2.0 ~ 3.65 V, 1C charge & discharge at +25 °C.
2. Usable energy is defined under the following conditions: 90 % DOD, 1C 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.

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