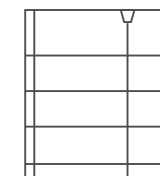


Energy Storage Batteries



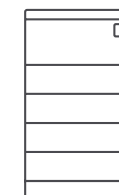
Store each energy

HIGH VOLTAGE BATTERY



Ai-HB G2 SERIES

Ai-HB 075A / 100A / 125A /
150A / 175A / 200A



Ai-HB SERIES

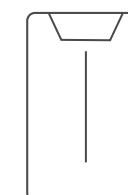
Ai-HB 2.56LG

LOW VOLTAGE BATTERY



Ai-LB SERIES

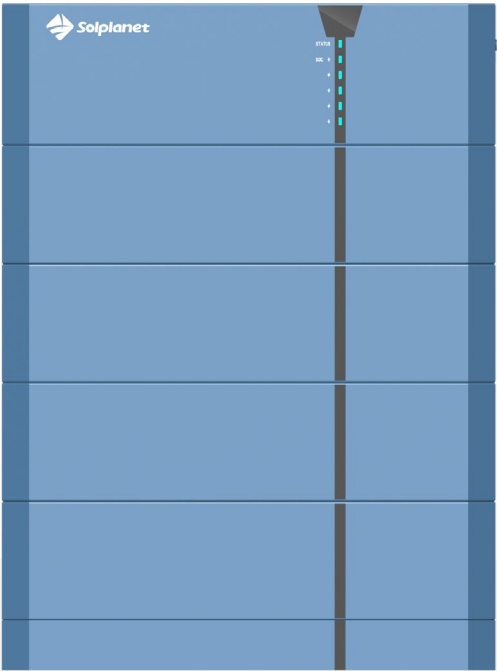
Ai-LB 5K / 10K



AI-LB Pro SERIES

Ai-LB 5K / 10K Pro

Ai-HB G2 Series



Models:
Ai-HB 075A Ai-HB 150A
Ai-HB 100A Ai-HB 175A
Ai-HB 125A Ai-HB 200A



Safety

- Modular design with plug-in connections
- Quick connections between battery and inverter
- Quick & easy-to-install with basic tools
- Steady and anti-dumping design
- Built-in emergency fire suppression module



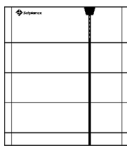
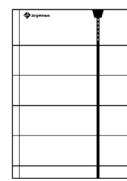
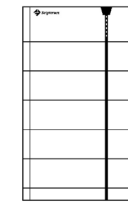
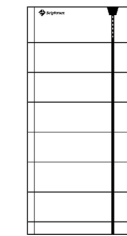
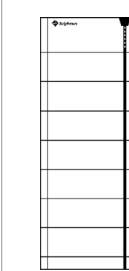
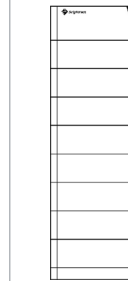
Reliable

- IP65 rated design
- Cell-level monitoring
- LFP safe technology
- All-round BMS protection



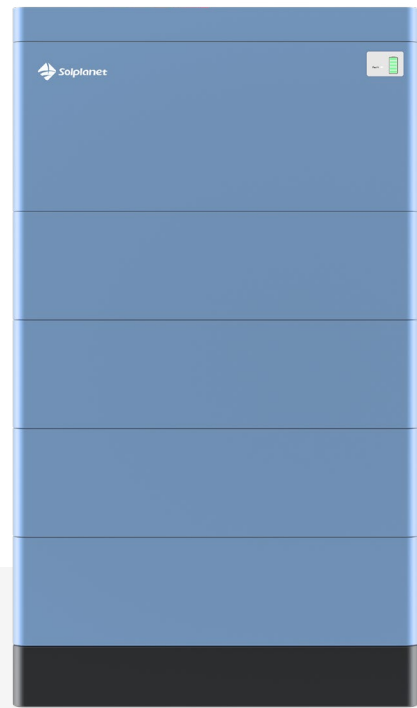
User-friendly

- Stackable and Expandable up to 81.92 kWh (supporting 8 modules per unit, 4 units in parallel)
- Multi-use applications: self-consumption, time of use tariffs, customisation
- Online monitoring via Solplanet apps

Technical Datasheet		Ai-HB 075A		Ai-HB 100A		Ai-HB 125A		Ai-HB 150A		Ai-HB 175A		Ai-HB 200A	
System Data	Battery designation												
	Battery module	HB051050A											
	Cell type	LiFePO4											
	Module quantity	3		4		5		6		7		8	
	Rated capacity	50 Ah											
	Nominal energy¹	7.68 kWh		10.24 kWh		12.8 kWh		15.36 kWh		17.92 kWh		20.48 kWh	
	Usable energy²	6.91 kWh		9.21 kWh		11.52 kWh		13.82 kWh		16.12 kWh		18.43 kWh	
	Nominal voltage	153.6 V		204.8 V		256 V		307.2 V		358.4 V		409.6 V	
	Operating voltage range	120 V ~ 175.2 V		160 V ~ 233.6 V		200 V ~ 292 V		240 V ~ 350.4 V		280 V ~ 408.8 V		320 V ~ 467.2 V	
	Max.charging current	25 A											
Max.discharging current	30 A												
Rated charging / discharging power	3.84kW		5.12 kW		6.40 kW		7.68 kW		8.86 kW		10.24 kW		
Max.charging power	3.84kW		5.12 kW		6.40 kW		7.68 kW		8.86 kW		10.24 kW		
Max.discharging power	4.61 kW		6.14 kW		7.68 kW		9.22 kW		10.75 kW		12.29 kW		
General Data	Dimensions (W / D / H)	540*390*600 mm		540*390*730 mm		540*390*860 mm		540*390*990 mm		540*390*1120 mm		540*390*1250 mm	
	Weight	106.5 kg		137 kg		167.5 kg		198 kg		228.5 kg		259 kg	
	Battery module weight	30.5 kg											
	Installation location	Indoor / Outdoor											
	Mounting method	Floor mounted											
	Operating temperature range	Charge: 0 ~ 50 °C Discharge: -20 °C ~ 50 °C											
	Storage temperature range	-20 °C ~ 45 °C											
	Cooling concept	Natural convection											
	Degree of protection	IP65											
	Relative humidity	5 ~ 95 %, non - condensing											
	Communication	CAN											
	Certification	IEC 62619 / EN 61000 IEC 62040 / UN38.3											
	Life cycle³	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.

Ai-HB Series



Model:
Ai-HB 2.56LG



Safety

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



Reliable

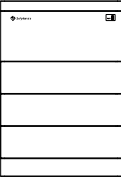
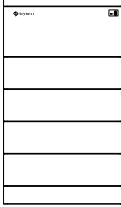
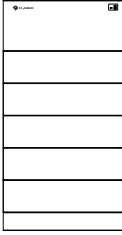
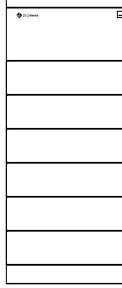
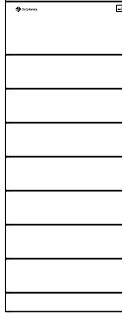
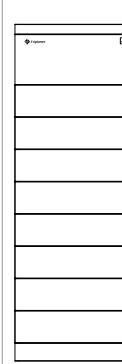
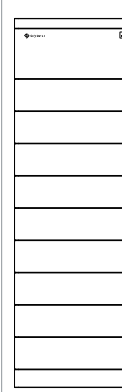
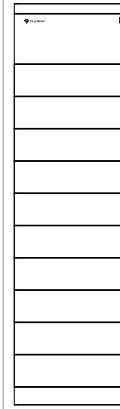
- IP65 rated design
- High quality cell inside



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

System Data	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 range	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
System Data	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 / 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.

Ai-LB Series



Models:
Ai-LB 5K
Ai-LB 10K



Safety

- LFP safe technology
- All-round BMS protection



Reliable

- IP65 rated design for outdoor use
- High quality cell inside



User-friendly

- Supporting Multi-use applications
- Online monitoring via Solplanet apps

Technical Datasheet

		Ai-LB 5K	Ai-LB 10K
System Data	Cell type	LiFePO4	
	Battery module	LB51100A	
	Module number	1	2
	Rated capacity	100 Ah	200 Ah
	Nominal energy ¹	5.12 kWh	10.24 kWh
	Usable energy ²	4.61 kWh	9.22 kWh
	Nominal battery voltage	51.2 V	
	Battery voltage range	44.8 V - 57.6 V	
	Max. charging / discharging current	50 A	100 A
	Rated charging / discharging power	2.56 kW	5.12 kW
	Max. charging / discharging power	2.56 kW	5.12 kW
General Data	Dimensions(W/D/H)	490 / 150 / 680 mm	640 / 181 / 1017 mm
	Module weight	44.5 kg	
	Weight	57 kg	116 kg
	Installation location	indoor / outdoor	
	Mounting method	Floor Mounted	Floor Mounted / Wall Mounted
	Operating temperature range	Charge: 0°C ~ 55°C Discharge: -20°C ~ 55°C	
	Storage temperature range	-20°C ~ 55°C	
	Cooling concept	Natural convection	
	Degree of protection	IP65	
	Relative humidity	5%~95%, non-condensing	
	Max. operating altitude	3000m	
	Scalability	Max.8 sets in parallel	Max.4 sets in parallel
	Communication	CAN	
	Certification	TUV/IEC 62619/IEC 62040/IEC 61000/UN38.3	
	Life cycle ³	6000 times	
	Round-trip efficiency	≥95%	

1. Nominal energy is defined under the following conditions: battery voltage 44.8~57.6V , 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.
3. Life cycle is defined under the following conditions:90% DOD, 70% EOL,0.5C charge & discharge at 25°C,(One cycle a day).

Ai-LB Pro Series



Models:
Ai-LB 5K Pro
Ai-LB 10K Pro



Efficient and Intelligent

- Max. discharging rate up to 1C.
- Expandable up to 160 kWh (32 units for Ai-LB 5K Pro and 16 units for Ai-LB 10K Pro in parallel)
- Automatic identification of parallel master and slave machines
- Online monitoring via Solplanet apps



Safe and Reliable

- LFP safe technology
- All-round BMS protection
- High quality cell inside
- IP65 rated design for outdoor use



Widely Applicable

- Charging at low temperature -5°C
- Multi-use applications: self-consumption, time of use tariffs, customisation



User-friendly

- Elegant design with hidden cable connection
- Compact and lightweight design
- Floor/wall mounted, stackable design, easy to install with basic tools

Technical Datasheet

Ai-LB 5K Pro

Ai-LB 10K Pro

System Data	Cell type	LiFePO4	
	Rated capacity	100 Ah	200 Ah
	Nominal energy ¹	5.12 kWh	10.24 kWh
	Usable energy ²	4.61 kWh	9.22 kWh
	Nominal battery voltage	51.2 V	
	Battery voltage range	44.8 V - 58.4 V	
	Max. charging / discharging current	60A / 100A	120A / 120A
	Rated charging/discharging power	3.07 kW	6.14 kW
	Max. charging / discharging power	3.07 kW / 5.12 kW	6.14 kW / 6.14 kW
General Data	Dimensions(W/D/H)	460 / 165 / 652 mm	550 / 165 / 867 mm
	Weight	50 kg	94 kg
	Installation location	indoor / outdoor	
	Mounting method	Floor mounted / Wall mounted	
	Operating temperature range	Charging: -5°C ~ 55°C Discharge: -15°C ~ 55°C	
	Storage temperature range	-10°C - 50°C	
	Cooling concept	Natural convection	
	Degree of protection	IP65	
	Relative humidity	5% - 95% RH, non-condensing	
	Max. operating altitude	3000m	
	Scalability	Max.32 sets in parallel	Max.16 sets in parallel
	Communication	CAN / RS485 / Dry Contact / WiFi	
	Certification	TUV / IEC 62619 / IEC 62040 / IEC 61000 / UN38.3	
	Life cycle ³	6000 times	
	Round-trip efficiency	≥ 95%	

1. Nominal energy is defined under the following conditions: battery voltage 44~58.4V, 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.
3. Life cycle is defined under the following conditions: 90% DOD, 70% EOL, 0.5C charge & discharge at 25°C,(One cycle a day).