



Residential LFP Battery Series

Ai-HB 2.56LG 51.2V 50Ah 2.56kWh

In-stock availability in Poland, Germany, and Italy

Certified under UKCA, EN IEC 61000, IEC 62619, IEC 62040, and EN 62619 standards

The Ai-HB 2.56LG is a newly designed high-voltage battery system with a flexible modular design. It is capable of stacking 3 to 10 battery modules with available capacities from 7.68kWh to 25.6 kWh and voltages from 153.6V to 512V. It is the ideal energy storage solution for on-grid or off-grid solar installations. With the High-Voltage residential battery bank, you can use more clean energy in a more efficient way.

Product Advantages



Unique Design
Modular layout, and space-saving design.



High Efficiency
High voltage technology



Safe and Reliable
Single-packet thermal aerosol fire extinguishing device
IP65



LED Display
SOC, battery status



Easy Installation
Easy to transport and install



Expandable Capacity
Recommended 3-10 layers

Dimensions



Technical Specification		Ai-HB2.56LG						
Model	153.6V50Ah	204.8V50Ah	256V50Ah	307.2V50Ah	358.4V50Ah	409.6V50Ah	460.8V50Ah	512V50Ah
Number of layers	3 layers	4 layers	5 layers	6 layers	7 layers	8 layers	9 layers	10 layers
Picture								
Energy	7.68KWh	10.24KWh	12.8KWh	15.36KWh	17.92KWh	20.48KWh	23.04KWh	25.6KWh
Operating Voltage Range(V)	134.4V-168.48	179.2V-224.64	224V-280.8	268.8V-336.96	313.6V-393.12	358.4-449.28	403.2V-505.44	448V-561.6
Dimension (L*W*H)mm	600*210*870	600*210*1030	600*210*1190	600*210*1350	600*210*1510	600*210*1670	600*210*1830	600*210*1990
Weight(KG)	102.5	129	155.5	182	208.5	235	261.5	288

Single module Technical Specification	
Module	51.2V 50Ah, 2.56kWh
Dimension (L*W*H)	High Voltage Box:600*210*250mm Battery Box:600*210*160mm
Weight	High Voltage Box:14kg Battery Box:28kg
Recommend charge current	25A
Max continue charge current	50A
Max continue discharge current	50A
Peak current	100A/1s
Display	The information of Battery, such as SOC, battery voltage and so on
Communication	Support RS485 / CAN
Maximum parallel support	4 clusters(3 to 10 units per cluster)
Charging temperature	0°C~55°C
Discharge temperature	-20°C~60°C
Environment	Indoor
Relative humidity	5%~95%
Cooling	Natural convection
Cell technology	Lithium-iron phosphate (LiFePO4)
Protection Rating	IP65
Life cycle	6000 times @80%DOD
Certificates	UKCA, EN IEC 61000, IEC 62619, IEC 62040, EN 62619