

AI-W5.1-B



- Safer**
 Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan, high efficiency and high-power density. Intelligent BMS, providing complete protection.
- Reliable**
 Support high discharge power. IP65, natural cooling, wide temperature range: -20°C to 55°C.
- Flexible**
 Modular design, easy to expand, Max. 6 clusters in parallel(36 pcs), Max. capacity of 184kWh.Suited to residential and commercial applications for increasing the self-consumption ratio.
- Convenient**
 Battery module auto networking, easy maintenance, support remotely monitoring and upgrade the firmware.
- Eco-Friendly**
 Use environmental protection materials, the whole module non-toxic, pollution-free.
- Wall-Mounted**
 Flat and stackable design, support wall-mounted & floor-mounted, no wiring, rapid and easy installation.

Technical Data

Model		AI-W5.1-B					
Main Parameter							
Battery Chemistry	LiFePO4						
Built-in Circuit Breaker	125A 2P, 60Vdc						
Battery Module Energy (kWh)	5.12						
Battery Module Voltage (V)	51.2						
Battery Module Capacity (Ah)	100						
Scalability	1	2	3	4	5	6	
Nominal Voltage (V)	51.2						
Operating Voltage(V)	43.2~57.6						
Nominal Energy (kWh)	5.12	10.24	15.36	20.48	25.6	30.72	
Usable Energy (kWh) ^[1]	4.6	9.2	13.8	18.4	23	27.6	
Charge/Discharge Current (A) ^[2]	Recommend	50	100	150	200	250	
	Max	180	180	250	250	250	
	Peak(10s,25°C)	150	270	360	360	360	
Other Parameter							
Recommend Depth of Discharge	90%						
System Dimension (W/D/H, mm)	720*255*569	720*255*850	720*255*1131	720*255*1412	720*255*1693	720*255*1974	
System Weight (kg)	74.5	127.5	180.5	233.5	286.5	339.5	
Battery Module Dimension (W/D/H, mm)	720*255*300 (without terminal parts)						
Battery Module Weight (kg)	53						
MasterLED Indicator	Battery module: 3LED (working, alarming, protecting), PDU module: 5LED(SOC:20%~100%)&3LED (working, alarming, protecting)						
IP Rating of Enclosure	IP65 (after stacking)						
Operating Temperature	Charge:0~55°C / Discharge: -20°C~55°C						
Storage Temperature	0°C~35°C						
Humidity	5%~95%						
Altitude	≤2000m						
Installation	Wall-Mounted, Floor-Mounted						
Communication Port	CAN2.0, RS485						
Cycle Life	≥6000(25°C±2°C,0.5C/0.5C,90%DOD,70%EOL)						
Energy Throughput	16MWh(Battery Module @ 70%EOL)						
Warranty Period ^[3]	10 years						
Certification	UN38.3, IEC62619, CE, UK, VDE2510 -50, CEI 0-21,CE-LVD, CEC						

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Deye Warranty Letter.