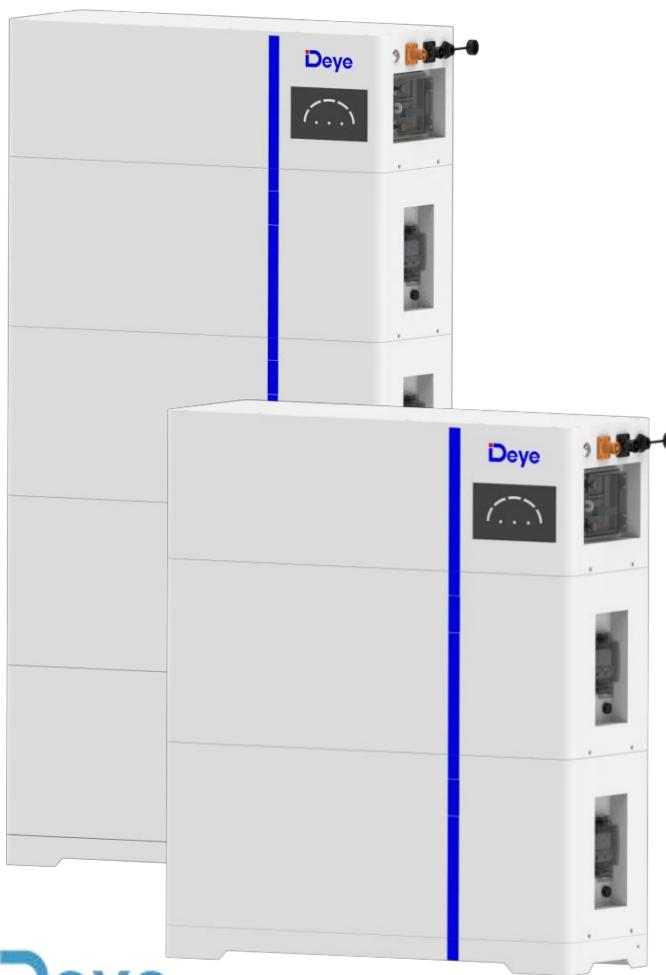


AI-W5.1-B



- ◆ **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.

- ◆ **Quick Installation**

Flat and stackable design, support wall-mounted & floor-mounted, no wiring, rapid and easy installation.

Deye

Stock Code: 605117.SH

Technical Data

www.deyeess.com

Model	AI-W5.1-B combinations					
Main Parameter	AI-W5.1-B	AI-W5.1-B*2	AI-W5.1-B*3	AI-W5.1-B*4	AI-W5.1-B*5	AI-W5.1-B*6
Battery Model Number						
Number of battery units in parallel (Optional)	1	2	3	4	5	6
Battery Chemistry						
Built-in Circuit Breaker				125A 2P, 60Vdc		
Battery Module Energy (kWh)					5.12	
Battery Module Voltage (V)					51.2	
Battery Module Capacity (Ah)					100	
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]	5.12	10.24	15.36	20.48	25.6	30.72
Rated DC Power (KW)	2.5	5	7.5	10	12	12
Charge/Discharge Current (A) ^[2]	Recommend	50	100	150	200	250
	Max.	100	180	250	250	250
	Peak(10s,25°C)	150	270	360	360	360
Other Parameter						
Recommend Depth of Discharge						100%
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
Master LED 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 (-20°C~55°C when heating on) / 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: 100% 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.

[4] Made in China.

Introduction

This series lithium iron phosphate battery is one of new energy storage products developed and produced by Deye, it can be used to support reliable power for various types of equipment and systems.

This series is especially suitable for application scene of high power, limited installation space, restricted load-bearing and long cycle life. This series has built-in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature. What's more, BMS can balance cells charging to extend cycle life.

Multiple batteries can connect in parallel for larger capacity and longer power supporting.



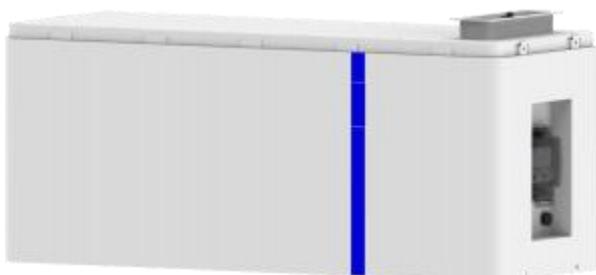
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V2.1

Model	Accessories Parts Description	Remark
AI-W5.1-B (individual package)	5.12kWh Battery Module	Stacked battery modules, each 5.12kWh, a single string can be stacked and installed 1~6 (battery capacity 5~30kWh)
	Power Distribute Unit I (Included)	Battery power and communication interface connect with Inverter and LED display system status
AI-W5.1-PDU1-B+Base (individual package)	Battery Base (Included)	The bottom support seat
	AI-W5.1-PCable1500 (Included)	Battery power and communication cable connect with hybrid inverter



Model: AI-W5.1-B (Battery Module)

Details: 5.12kWh, 720*255*300(W x D x H,mm), 53kg



Model: AI-W5.1-PDU1-B

Details: 720*255*238(W x D x H,mm), 15kg

Built-in Circuit Breaker: 250A 2P, 1000Vdc



Model: AI-W5.1-Base (Battery Base)

Details: 720*255*68(W x D x H,mm), 6.5kg