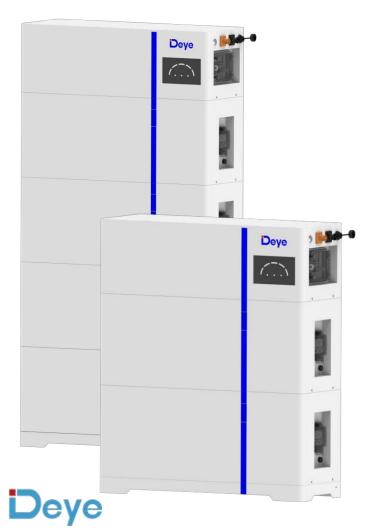
AI-W5.1-B







Stock Code: 605117.SH

Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery, providing safety and a longer lifespan, plus high efficiency and high-power density. Intelligent BMS provides complete protection.

• Reliable

Supports high discharge power and features IP65, natural cooling, and a wide operating temperature range: -20° C to 55° C .

◆ Flexible

Modular design makes future expansion easy Max. 6 clusters in parallel (36 pcs) with a Max. capacity of 184kWh. Suited to residential and commercial applications looking to increase the self-consumption ratio.

◆ Convenient

Battery module features auto-networking, easy maintenance, and support for remote monitoring and upgrade of the firmware.

◆ Eco-Friendly

Uses environmentally friendly materials, with the entire system being non-toxic & pollution-free.

Quick Installation

Flat and stackable design, supports wall-mounted & floor-mounted, no wiring between modules for rapid and easy installation.

Technical Data www.deyeess.com

Model		Al-W5.1-B combinations						
Main Parameter								
Battery Model Number		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	
Number of battery units	in parallel (Optional)	1	2	3	4	5	6	
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						
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	
Rated DC Power (KW))	2.5	5	7.5	10	12	12	
	Recommend	50	100	150	200	250	250	
Charge/Discharge Current (A) ^[2]	Max.	100	180	250	250	250	250	
	Peak(10s,25°C)	150	270	360	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						
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	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.

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.

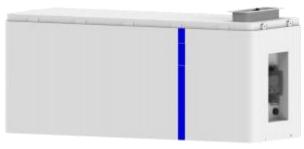


^[2] The current is affected by temperature and SOC.

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

^[4]Made in China.

Model	Accessories Parts Description	Remark
Al-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: $720*255*238(W \times D \times H,mm)$, 15kg**Built-in Circuit Breaker:** $250A \ 2P$, 1000Vdc



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

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