



150AH Black Lithium Iron Phosphate Battery DX-B-48V150AH For Backup Power And Energy Saving

Our Product Introduction

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Basic Information

- Place of Origin: shenzhen
- Brand Name: daxin
- Certification: CE,UL
- Model Number: DX-B-48V150AH
- Minimum Order Quantity: 10
- Packaging Details: Wooden pallet+cardboard box
- Payment Terms: T/T, Western Union
- Supply Ability: 10000pcs/month



Product Specification

- Usage: Rack Installation
- Ventilation: Built-in
- Remark B: Storage Capacity Should Be 40%~50% Full Charge Capacity
- Compatibility: Fits Most Battery Sizes
- Product Name: 150AH Lithium Iron Battery/rack
Battery/embedded Battery/energy Storage
Battery/Electricity Storage
- Cautions: Do Not Immerse The Battery In Water, And Keep The Battery In A Cool Dry Surrounding If It Stands By. Do Not Use Or Leave The Battery At High Temperature As Fire Or Heater. Otherwise, It Can Overheat Or Fire Or Its Performance Will Be Degenerate And Its Ser

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1.1 Specifications

NO	Item	SPEC	Remark
1	Rated Capacity	150AH	
2	Rated Voltage	DC48	
3	Rated Energy	7200wh	
4	Operating Voltage	37.5V~54.75V	2.8V~3.65V
5	Max. Charge Current	75A	
6	Max. Discharge Current	100A	
7	Peak Current	300A	
8	Ip Grade	IP20	
9	Discharge Temp	-10°C~55°C	
10	Charge Temp	0°C~55°C	
11	Dimension	L760*W480*H175(mm)	
12	Weight	60Kg	
13	Internal Resistance	≤30mΩ	
14	Cycle Life	6000	25°C
15	Communication	CAN/RS485	
16	Modei	48v150AH	

Key Functions of a BMS

Monitoring:

Voltage Monitoring: Tracks the voltage of each cell to ensure they remain within safe limits.

Temperature Monitoring: Measures the temperature of cells to prevent overheating and thermal runaway.

Current Monitoring: Monitors the current flowing in and out of the battery pack.

Balancing:

Cell Balancing: Ensures all cells in the battery pack charge and discharge evenly. This prolongs battery life by preventing overcharging of weaker cells and undercharging of stronger ones.

Protection:

Overvoltage Protection: Disconnects the battery if any cell exceeds its maximum voltage.

Undervoltage Protection: Disconnects the battery if any cell falls below a critical voltage level.

Overcurrent Protection: Prevents excessive current flow which can lead to overheating or damage.

State Estimation:

State of Charge (SoC): Estimates how much charge is left in the battery.

State of Health (SoH): Assesses the overall health and capacity of the battery over time.

Communication:

Data Reporting: Communicates information about battery status, performance, and health to external devices or systems, often using protocols like CAN, I2C, or RS-485.

Control:

Charging Control: Manages the charging process to optimize battery life and performance.

Discharge Control: Regulates the discharge to prevent damage and ensure safety.

Importance of a BMS



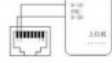


Enhances safety by preventing conditions that could lead to battery failure or accidents.

Extends battery life through effective management of charging and discharging cycles.

Improves performance by ensuring optimal operating conditions for the battery.



1、Product introduction

1.3 Interface Command

Item	SPEC	Interface	Refer
POSITIVE	100A runs through the fence terminal -2p	M6screw	
NEGATIVE	100A runs through the fence terminal -2p	M6 screw	
485 Communication Interface	DATA+ (A)	RJ45 interface	
	DATA- (B)		
CAN Communication Interface	CAN-H	RJ45 interface	
	CAN-L		
Power	Switch is ON, open discharge	Weaknesses switch	

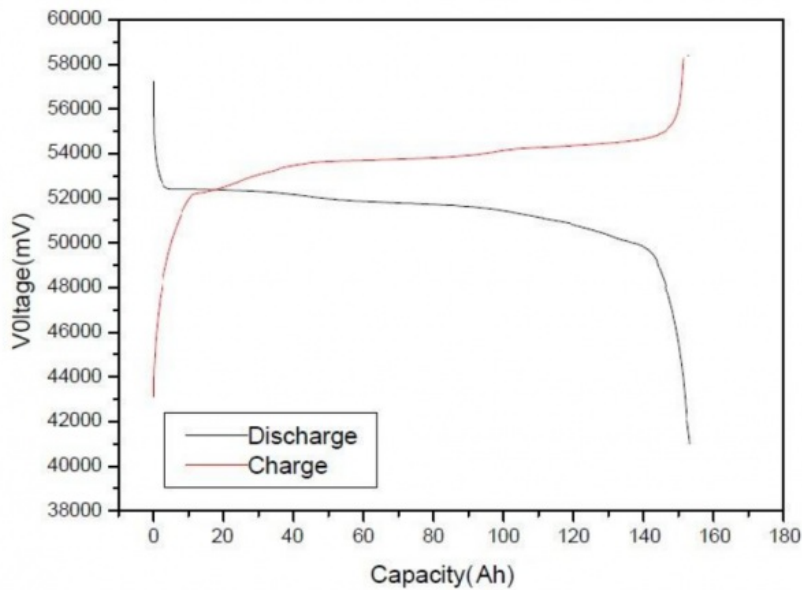
1、Product introduction

1.4 Interface Definition

Item	Definition
Air Switch	Switch on, battery circuit turns on; Switch off, battery circuit turns off.
SOC	Percentage of remaining power: 25%~50%~75%~100%
ALM	ALM Blinking: Battery alarm; ALM ON: Battery protection
RUN	RUN Blinking: Battery running
CAN	Communication Protocol (RJ45 port) follows CANBUS, used for battery information transmission 
RS485	Communication Protocol (RJ45 port) follows RS485, used for battery information transmission 
ADD	Before connecting multiple devices in parallel, set the DIP switch address for each battery. The DIP switch address for each battery should be different.
RST	Long pressing a few seconds to restart battery
Power	Switch is ON, open discharge

2、Characteristic Curve

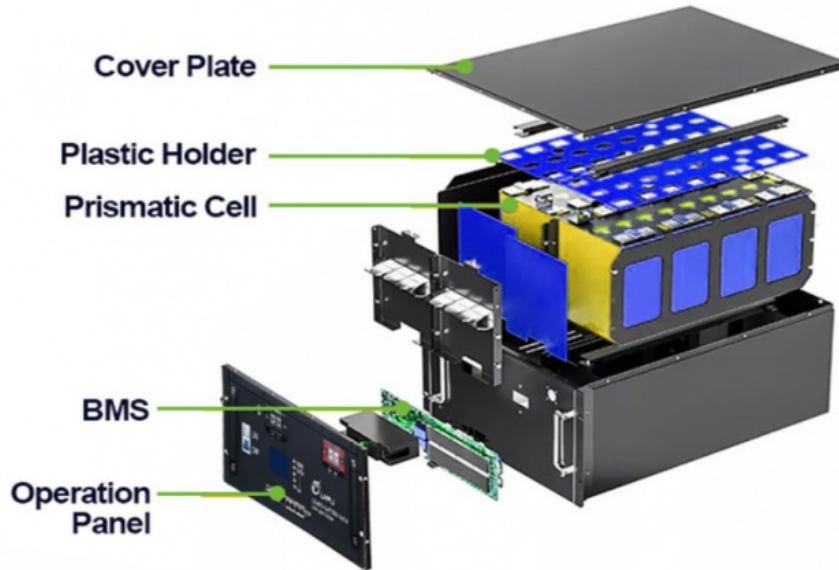
HT48V150Ah Charge-Discharge Curve 0.2C,25°C



3、BMS

BMS Description

NO	Item	MIN	MAX	Type	Unit
1	Operating Voltage	37.5	54.75	/	V
2	Continuous Charging Current	1	75	/	A
3	Continuous Discharging Current	1	100	/	A
4	Discharging Over Current	120	300	/	A
5	Operating Temp	-20	70	/	°C
6	Operating Humidit	10	85	/	%
7	Internal Resistance		<10		mΩ
8	Normal Operating Consumption		<30		mA
9	Static Total Consumption		100	50	uA



Production workshop shooting



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