



Product Description

Custom 300AH Lithium Storage Batteries Embedded Energy Storage Battery





Product Specifications

Usage	Rack installation
Compatibility	Fits Most Battery Sizes
Ventilation	Built-in
Installation	19 Rack
Color	Black
Material	Lithium Iron Phosphate

Product Overview

1.1 Specifications

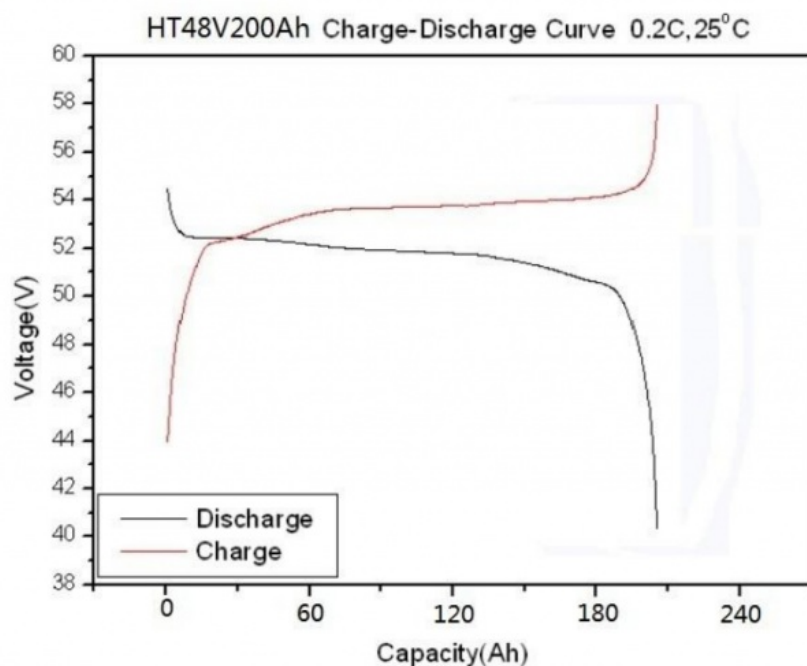
NO	Item	SPEC	Remark
1	Rated Capacity	300AH	
2	Rated Voltage	DC48	
3	Rated Energy	14400wh	
4	Operating Voltage	37.5V~54.75V	2.8V~3.65V
5	Max. Charge Current	100A	0.3c
6	Max. Discharge Current	200A	0.6c
7	Peak Current	300A	1s
8	Ip Grade	IP20	
9	Discharge Temp	-10°C~55°C	
10	Charge Temp	0°C~55°C	
11	Dimension	L760*W480*H270(mm)	
12	Weight	107Kg	
13	Internal Resistance	≤30mΩ	
14	Cycle Life	6000	25°C
15	Communication	CAN/RS485	
16	Model	48v300AH	

Item	SPEC	Interface	Refer
POSITIVE	Resulting red line	No. 4 extra-soft silica gel wire out 260mm	
NEGATIVE	The black line coming out	No. 4 extra-soft silica gel wire out 260mm	
485 Communication Interface	DATA+ (A)	RJ45 interface	DATA+ Follow (RS485A) DATA- Follow (RS485B)
	DATA- (B)		
Power	Latching switch	Weaknesses switch	
display screen	display screen	viewing screen	

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



3、BMS

BMS Description

NO	Item	MIN	MAX	Type	Unit
1	Operating Voltage	37.5	54.75	/	V
2	Continuous Charging Current	1	100	/	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

Important Safety Instructions

Do not immerse the battery in water. Store in a cool, dry environment when not in use.

Avoid high temperature environments to prevent overheating, performance degradation, or reduced service life.

Maintain proper polarity - do not reverse positive and negative terminals.

Never connect battery electrodes directly to an electrical outlet.

Prevent short circuits which can cause serious battery damage.

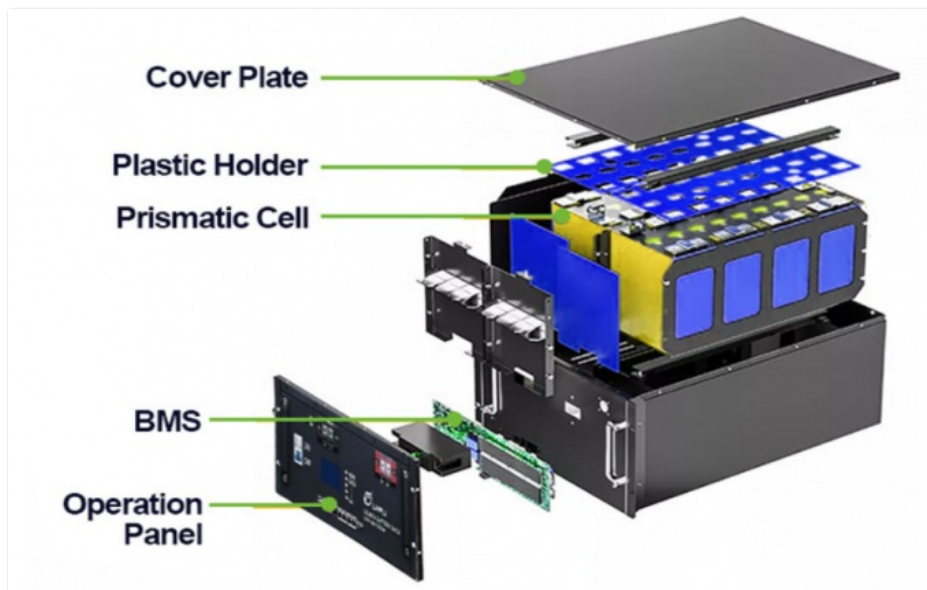
Keep away from metal objects during transport and storage.

Avoid areas with strong static electricity or magnetic fields which may damage safety devices.

Always use a dedicated lithium battery charger.

Charge periodically (recommended every 3 months) to maintain approximately 54V when storing long-term to prevent performance loss from self-discharge.

Do not disassemble the battery.



Production workshop shooting



Remark:

- a. For optimal performance, discharge to cutoff voltage at 0.2C rate after full charge at room temperature.*
- b. For storage, maintain charge level between 40%-50% of full capacity.*



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