

# sub<sup>+</sup>zero

# 100Ah

LiFe Po4 Lithium Long Life Cycle Battery



## Features

- Up to 5000 cycles
- Long service life
- Built in circuit protection
- Extreme temperature tolerance
- Quick recharge & discharge
- Low self discharge in storage

## Applications

- Solar Storage
- Switching applications
- Base transceiver stations
- Communications equipment
- UPS

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Heated lithium technology

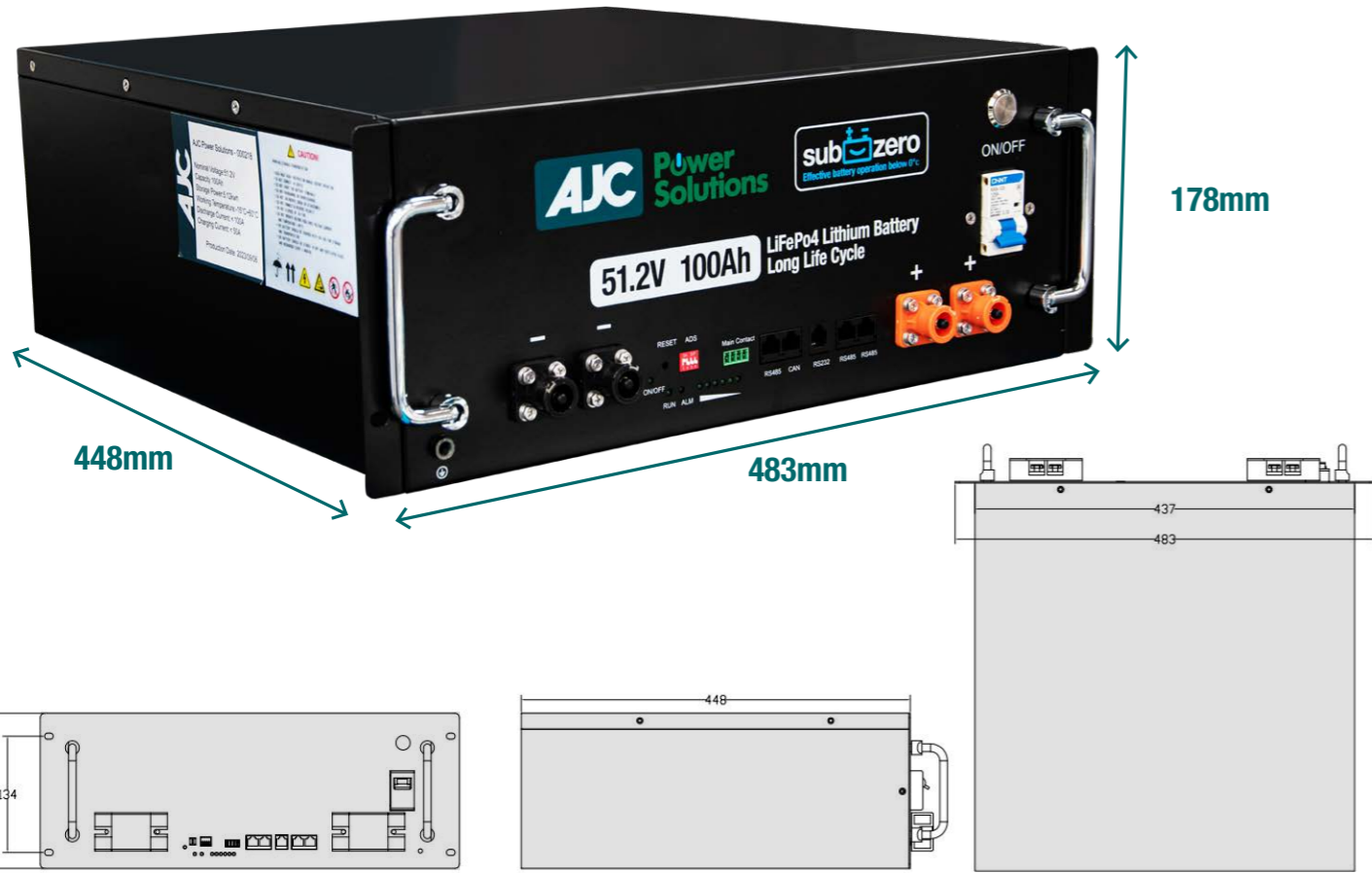
Effective battery operation below 0°C

**AJC** Power Solutions

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# Specifications

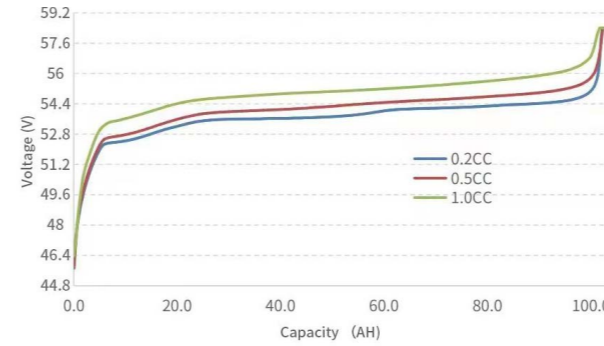
# subzero 100Ah



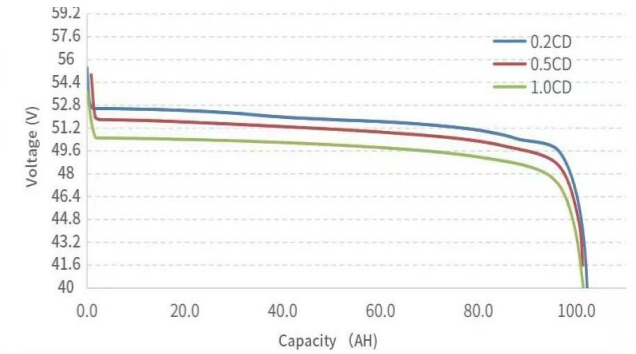
# Charge / Discharge

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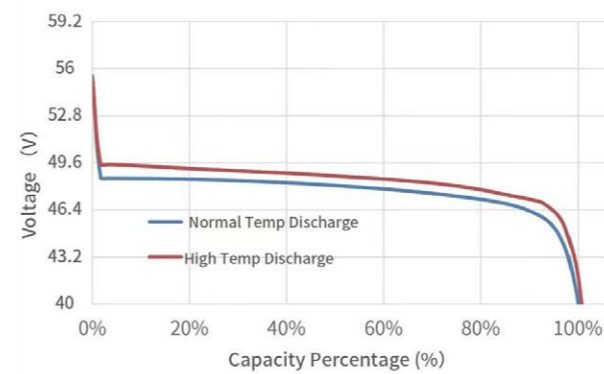
Charge curve @ different rate



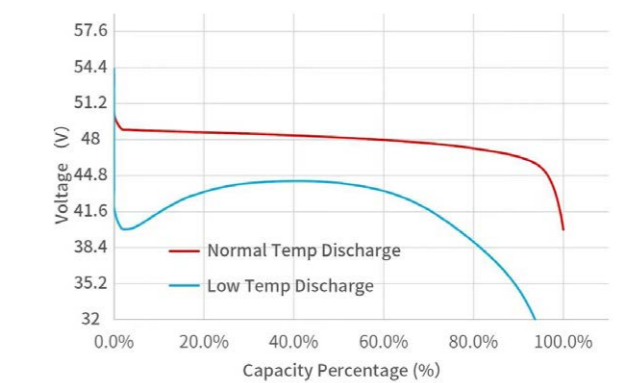
Discharge curve @ different rate



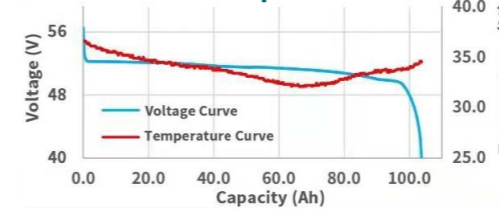
Normal, high temp discharge curve



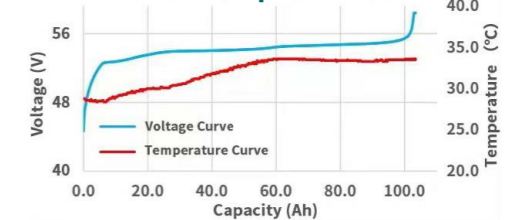
Normal, low temp discharge curve



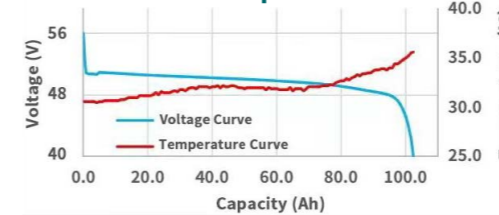
0.2CD Temp rise curve



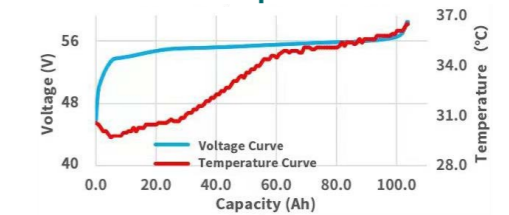
0.2CC Temp rise curve



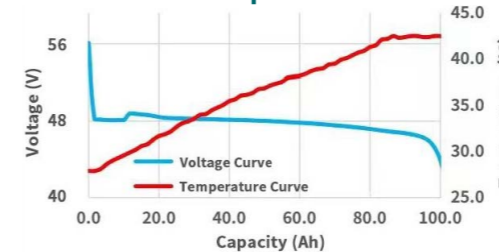
0.5CD Temp rise curve



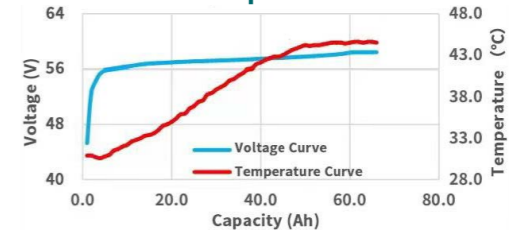
0.5CC Temp rise curve



1CD Temp rise curve



1CC Temp rise curve



Item	Specification	Info
Battery Type	Lithium Ion Phosphate	
Rated Capacity	100AH	
Rated Voltage	51.2V	
Rated Energy	5120wh	
Operating Voltage	45V ~ 58.4V	2.8V ~ 3.65V
Max. Charge Current	50A	0.5C
Max. Discharge Current	100A	1C
Internal Heat Function	Available	-5°C On +5°C Off
Ip Grade	IP20	
Discharge Temp	-10°C ~ 55°C	
Charge Temp	0°C ~ 55°C	
Dimension (mm)	D 448 x W 483 x H 178	
Weight	60Kg	
Cycle Life	5000	25°C
Communication	CAN/RS232+RS485	

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Item	Specification
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
RS232	Communication Protocol (RJ232 port) follows RS232, used for battery information transmission

Item	Specification	Interface	Info
POSITIVE	100A runs through the fence terminal -2p	Plug	
NEGATIVE	100A runs through the fence terminal -2p	Plug	
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	
232 Communication Interface	TX / RX	232 interface	



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## FOOTNOTES

I. This assessment is guidance ONLY. As part of our on-going commitment to improvement we reserve the right to alter specifications, designs or figures, without prior notice. All dimensions and weights are approximate.