

YC-LP 51.2V 300AH Li-ion BATTERY SPECIFICATION

Configuration

Function	Configuration	Function	Configuration
Number of strings supported	16S	RS485 communication (isolated)	Standard option
Continuous current	200A	UART interface (isolated)	Not supported
Number of NTC	2 built-in, 4 external	CAN communication	Standard option
Balance Function	Passive balance	RS232 Communication	Optional
UART (non-isolated)	Standard option	Heating function	Optional
Switch function	Optional	Module of Bluetooth	Optional
Charging current limit	Standard option 10A	Battery packs in series	Not supported
Battery packs in parallel	Supported	Secondary protection	Standard option
(History storage)	Supported	LCD display	Optional
(Pre-discharge function)	Standard option	Interface of LED indicator	Standard option
Buzzer	Optional	4G+GPS function	Not supported

Basic parameter

Basic parameter	
Cell specifications	16 strings of LFP battery
Interface type	Charge and discharge are both at the same port
Charging voltage	58.4V
Continuous charging current	200A
Continuous discharging current	200A

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Cycle life	Cycle life ≥ 6000 Times
Consumption of running	$\leq 25\text{mA}$
Consumption of sleep Mode	$\leq 150\mu\text{A}$
Consumption of power down Mode	$\leq 20\mu\text{A}$
Condition of exit power down Mode	Connect the charger or Key press
Circuit resistance	$\leq 10\text{mR}$
Operating temperature	$-20^{\circ}\text{C} \sim 75^{\circ}\text{C}$
Structure size of Product	
Product Size	$850\pm 1\text{mm} * 440\pm 1\text{mm} * 270\pm 1\text{mm}$ Length*Width*Height
Package Size	$975\pm 1\text{mm} * 485\pm 1\text{mm} * 320\pm 1\text{mm}$ Length*Width*Height
Product Weight	
Net Weight	$115\text{kg}\pm 1\%$
Gross Weight	$125\text{kg}\pm 1\%$

Test should be at temperature $25\pm 2^{\circ}\text{C}$, and relative humidity $65\pm 20\%$ of surroundings.

Reliability parameters

No.	Parameter Name	Specification
1	Detection precision	Current accuracy: $\pm 2\%$ Cell voltage accuracy: $\pm 10\text{mV}$ Temperature accuracy: $\pm 3^{\circ}\text{C}$.
2	Current threshold	Charging current: 0.8A Discharging current: 0.8A
3	Failure types	Voltage detection failure, temperature detection failure, charge and discharge MOS failure.

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4	History	Supports the storage of 500 pieces of historical data information, including total voltage, current, temperature, MOS status, SOC, SOH, and cycle times
5	Communication interface	CAN1: Communication with PCS, support a variety of PCS protocols, can be selected through the host computer or LCD screen, baud rate 500K. RS485_1: Communication with PCS, support a variety of PCS protocols, can be selected through the host computer or LCD screen, can be connected to the host, baud rate 9600. CAN2 & RS485_2: Parallel communication interface, can be connected to the host computer, default baud rate 19200.
6	Power on	➤ When the system is in power off mode, close the self-locking switch, power on the protection board, and turn on the LED indicator for 0.5 seconds from 'LED1'. ➤ When the system is in sleep mode, press the reset switch, press the button (1S) and release it, the protection board is activated, and the LED indicator lights up successively from 'LED1' for 0.5 seconds.
7	Power off	➤ When the system is running, press the button for 3 to 6S. The LED indicator will turn on for 0.5 seconds from the lowest battery indicator. After release, the system goes to sleep. ➤ Turn off the self-locking switch when the system is running. Wait for 1S to 3S before the system enters the power failure state.

Test should be at temperature $25\pm 2^{\circ}\text{C}$, and relative humidity $65\pm 20\%$ of surroundings.

WARNINGS AND CAUTIONS IN HANDLING THE Lithium-ion BATTERY

(WARNINGS!)

1. Do not immerse the battery in water, and keep the battery in a cool-dry surrounding if it stands by.

2. Do not use or leave the battery near a heat source as fire or heater.
3. When recharging, use the battery charger specifically for that purpose.
4. Do not reverse the positive(+) and negative(-) terminals
5. Do not short-circuit the battery by directly connecting the positive(+) and negative(-) terminal with metal objects such as wire.
6. Do not strike or throw the battery.
7. Do not directly solder the battery and pierce the battery with a nail or other sharp object.

(CAUTIONS!)

- (1) Do not use or store the battery where is exposed to extremely hot, such as under window of a car in direct sunlight in a hot day. Otherwise, the battery may be overheated. This can also reduce battery performance and/or shorten service life.
- (2) If the battery is not used within three months, please recharge it in time.
- (3) Do not disassemble impact extrude or use it above 50℃
- (4) This product can only be used alone. It is forbidden to use in series or in parallel. Do not use after soaking!