

江苏亚储新能源科技有限公司
Jiangsu Yachu New Energy Technology Co., Ltd.锂离子电池规格书
Li-ion BATTERY SPECIFICATION

客户: Customer:		产品型号: product Model:	YC-LP51.2V100AH
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客户签章: Customer signature: 日期: Date:			

地址: 江苏省宜兴市新建工业园新丰路28号.

Address: 28 Xinfeng Road, Xinjian Industrial Park, Yixing City, Jiangsu Province.

TEL / 电话: 0510-87289676

FAX / 传真: 0510-87289676

URL / 网址: www.jsyachu.com

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一、适用范围（Product Scope）：

本规格书描述了江苏亚储新能源科技有限公司生产的锂离子二次电池组的技术要求、测量方法、运输、储存及注意事项。

This Specification describes the requirements of the lithium ion recharge able battery supplied by Jiangsu Yachu New Energy Technology Co., Ltd.

二、电池组特性（Battery Group Specifications）：

序号 NO.	项目 Item	常用参数 General Parameter		备注 Remark
1	规格 Cell Model	LiFePO4 100Ah-16S1P		
2	标称容量（0.5C） Standard Capacity（0.5C）	Typical: 100.0Ah Min: 100.0Ah		在 25℃室温下 0.5C 充 ,电压至 58.4V, 电流至 0.025C 截止, 以 1C 恒流放电至 44.0V 截止。 At temperature 25 °C, Charge at 0.5C, cut-off voltage is 58.4V, cut-off current 0.025C; Discharge at 1C constant current, discharge cut-off voltage is 44.0V
3	额定电压 Rated voltage	51.2V		
4	最大充电电压 Max. Charge voltage	≤58.4V（standard:58.4V）		
5	放电截至电压 Discharge Cut-off voltage	44.0V		电池过放保护时 Battery over-discharged Protection
6	标准充电电流 Standard charge current	≤0.25C		锂电池组专用充电器 Lithium Charger
7	额定持续放电电流 Rated Continuous Discharge Current	100.0A		
8	最大持续放电电流 Max Continuous Discharge Current	≤100.0A		
9	过流保护电流 Over-Current Protection value	持续工作电流 Continuous working current	≤100.0A	
		延时放电电流 Time-delay discharge current	100A<I ≤200A	2-3 min
		最大瞬时放电电流 Max Instantaneous discharge current	200A<I ≤300A	3-5s
		单串充电保护电压 Single cell charge protection voltage	3.65V±0.05	
		单串截止电压 Single cell cut-off voltage	2.75V±0.05V	

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序号 NO.	项目 Item	常用参数 General Parameter	备注 Remark
10	静态电流 Current Consumption	工作状态 (Normal Mode) : $\leq 30\text{mA}$	
		休眠状态 (Sleep Mode) : $\leq 15\mu\text{A}$	
11	充电时间 Charge Time:	4--5小时 4-5hours	
12	充电方式 Standard charge method	恒流 / 恒压 (CC / CV) Constant Current / Constant Voltage	
13	输出端与输入端 Output and Input	P+(red) / P-(black)	
14	充/放电接口 Interface	铜端子 (M8) Copper Terminal (M8)	
15	适用负载功率 Applications Power	MAX :5000W	
16	应用范围 Applications:	储能系统 动力电源 Energy Storage System Motive Power	
17	内阻 (Max, at 1000Hz.) Impedance (Max, at 1000Hz.)	$\leq 160\text{m}\Omega$	放电口正、负极端之间 Discharge port between positive and negative terminals
18	循环寿命 Cycle life	≥ 6000 times (100% DOD @25°C)	Capacity retention rate $\geq 80\%$
19	重量 Net Weight (approx)	48 $\pm$ 0.5Kg	挂壁款 The wall mounted type
20	电池组尺寸 Battery dimension	MAX:L520×W500×H220mm	
21	保护板功能 BMS function	过充保护 Protect Function of over-charge	
		过放保护 Protect Function of over-discharge	
		过流保护 Protect Function of over-current	
		短路保护 Protect Function of short circuit	
		温度保护 Protect Function of temperature	
		均衡功能 Balance function.	
		双RS485、RS232通信接口 Dual RS485, RS232 communication interface	
		支持电池组并联，最大并联数量为：16组 Support parallel connection of batteries, the maximum number of parallel connection is 16	
		可设置10A限流功能 10A current limiting function can be set	

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序号 NO.	项目 Item	常用参数 General Parameter		备注 Remark
22	工作温度范围(CC/CV) Operating Temperature(CC/CV)	充电 Charge	0℃~+45℃	
		放电 Discharge	-20℃~+60℃	
		湿度 Humidity	50%≤RH≤85%	
		贮存 Storage	0℃-40℃ (capacity 80%)	长期存储温度在 15~25℃ Long-term storage temperature at 15~25℃
23	公司产品型号规格、容量、电压、电流、外壳尺寸等主要参数支持客户定制！ Our products are customized, so the main data can be changed by customer's requirements.			

三、电池使用时警告事项及注意事项：

WARNINGS AND CAUTIONS IN HANDLING THE Lithium-ion BATTERY

警告！(WARNINGS!)

- 1、严禁将电池浸入水中，保存不用时，应放置于阴凉干燥的环境中。
Do not immerse the battery in water ,and keep the battery in a cool-dry surrounding if it stands by.
- 2、禁止将电池在热源高温旁，如火、加热器等旁使用和留置。
Do not use or leave the battery near a heat source as fire or heater.
- 3、充电时请选用锂离子电池专用充电器。
When recharging, use the battery charger specifically for that purpose.
- 4、严禁颠倒正负极使用电池。
Do not reverse the positive(+) and negative(-) terminals
- 5、严禁用金属直接连接电池正负极短路。
Do not short-circuit the battery by directly connecting the positive(+) and negative(-) terminal with metal objects such as wire.
- 6、禁止敲击或抛掷、踩踏电池。
Do not strike or throw the battery.
- 7、禁止直接焊接电池和用钉子或其他力气刺穿电池。
Do not directly solder the battery and pierce the battery with a nail or other sharp object.

注意! (CAUTIONS!)

- 1、不要使用处于极热环境中的电池，如阳光直射或热天的车内。否则，电池会过热，甚至鼓胀，这样就会影响电池的性能、缩短电池的使用寿命。
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、电池在三个月内未使用请及时补充电一次。
If the battery is not used within three months, please recharge it in time.
- 3、禁止拆卸、撞击、挤压或高于50℃高温使用。
Do not disassemble impact extrude or use it above 50℃
- 4、本产品只能单只使用，禁止串联及并联使用、浸水后严禁使用。
This product can only be used alone. It is forbidden to use in series or in parallel. Do not use after soaking!

四、产品规格书的修订: Amendment of this Specification

本公司有权对本产品规格书进行修订，在对产品规格书修订后江苏省亚储新能源科技有限公司将会通知客户。

This specification is subject to change with prior notice.