



江苏锋驰绿色电源有限公司  
JIANG SU FENG CHI ENERGY CO.,LTD

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江苏锋驰绿色电源有限公司  
JIANG SU FENG CHI ENERGY CO.,LTD

Specification For Approval  
产品规格书

Model 型号: 24V-10Ah

Type 类型: Li-ion polymer Pack

Draft 制定	Checked 审核	Approval 批准
Customer Approval 客户回签		

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## History of specification

### 规格书修订记录

Date 日期	Contents 内容	Remarks 备注
2015/3/25	新版发行	A0



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### 1 Scope 适用范围

This specification describes the basic performance, technical requirement, testing method, warning and caution of the Li-ion Cylindrical rechargeable battery. The specification only applies to **JIANG SU FENG CHI ENERGY CO.,LTD** 本标准规定了锂离子聚合物可充电电池的基本性能、技术要求、测试方法及注意事项，本标准只适用于江苏锋驰绿色新能源有限公司所生产的电池。

### 2 Product and Model Name 产品种类及型号

2.1 Product 产品种类: Lithium Polymer Battery Pack 聚合物锂离子电池组

2.2 Model Name 产品型号: **24V10Ah**

2.3 Ratings 主要技术参数

Item 项目	Rating 内容	Detection 出货检测	Note 备注
3.1 Nominal Capacity 标称容量	10Ah	≥10A	
3.2 Nominal Voltage 标称电压	24V	26.5V	
3.3 AC Impedance Resistance 内阻	≤80mΩ	36 mΩ	
3.4 Discharge Cut-off Voltage 放电截至电压	21.00V	19.3V	
3.5 Charge Voltage 充电电压	29.4V	29.4V	(CC/CV)
3.6 Max. Charge Voltage 最大充电电压	29.75V	29.58V	
3.7 Standard charge current 标准充电电流	5A		
3.8 Max. Charge Current 最大充电电流	10A		
3.9 Max. discharge current 持续放电电流	15A		
3.10 Cycle life@80% DOD 80%放电深度的循环寿命	1000 次		25℃条件下0.3C充放电
3.11 Weight 重量	Approx4kg		
3.12 Dimension 尺寸	26*82*430 (mm)		
3.13 Packing material 包装材质	Epoxy Board +PVC (Blue). 环氧树脂板		
3.14 Cell model 电芯型号	FC6080205		
3.15 Assembly 组合方式	7series 7串		
3.16 Operating Temperature 工作温度	Charge 充电	0~+45℃	
	Discharge 放电	-12~+60℃	
3.17 Storage Temperature	less than 1 month 小	-10~+45℃	



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存储温度	于 1 个月		
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### 3. Internal protection circuit 内置保护线路

Model 型号	7S10A 三元锂离子电池保护板
Max. continuous discharge current 最大可持续放电电流	15A
Over current protection 过流保护	60A
Charge current 可充电电流	≤7A
Instantaneous maximum current 瞬间最大电流	40A 5S
Over-charge cut-off voltage 过充关断电压	4.2±0.025V(for single cell)
Over-charge recovery voltage 过充电恢复电压	4.15±0.05V(for single cell)
Over-discharge cut-off voltage 过放电关断电压	2.75±0.08V(for single cell)
Over-discharge recovery voltage 过放电恢复电压	3.0±0.1V(for single cell)
BMS Dismention 保护板尺寸	L65×W30×9mm
Charge Port 充电端口	C+&C-
Discharge Port 放电端口	P+&P-

### 4. Warranty period and product responsibility 保质期及产品责任

Warranty period begins from the delivery date, and is exclusively made in the quality warranty or sales contract. 保质期是从出厂日期（喷码/标示）开始起，保质期在质保协议或合同中。

When the specification is amended in the future, FENGCHI won't do any further notice. 当规格书变更时，锋驰公司不做另行通知。

### 5. Notice 注意事项

When the voltage between the two electrodes is over 36V, the safe voltage of human beings, do not contact the positive and negative terminals of battery pack with body. 当电池组两端电压超过人体安全电压36V时，禁止用身体直接接触电池组正负端。

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. 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，可能着火（点



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燃);同时这样也会影响电池的性能、缩短电池的使用寿命。

Use the battery only under the following environmental conditions. Failure to do so can result in reduced performance or a shorten service life. Recharging the battery outside of these temperatures can cause the battery to overheat, explode or catch fire. 只能在下述条件下使用电池,否则将会降低电池的性能或缩短电池的使用寿命。在此温度范围外使用电池可能引起过热、爆炸或起火。

The isolated measures are needed between battery (the bare Al layer at side and top sealing) and the PCB, and also between battery and electric equipment: especially avoid the Al layer in packing foil contact to cathode or anode (including electric equipment, otherwise this can cause battery leakage or swelling.

注意在电芯(侧边和极耳封边包装膜断口位置裸露的铝层)与保护板、及电芯与用电器具之间采用绝缘结构措施:特别注意避免出现包装膜铝层与正负极(包括用电器具的带电部分)出现接触的隐患,否则可能造成漏液气胀。

### **Danger! 危险!**

Failure to observe the following precautions may result in battery leakage, overheating, explosion and/ or fire.

不仔细阅读下述事项可能导致电池泄露、爆炸或起火。

- Do not immerse the battery in water or allow it to get wet.
- 勿将电池投入水中或将其弄湿;
- Do not use or store the battery near sources of heat such as a fire or heater.
- 勿在热源(如火或加热器)附近使用或贮存电池;
- Do not use any chargers other than those recommended by EVERPOWER.
- 请使用 EVERPOWER 推荐的充电器;
- Do not reverse the positive (+) and negative (-) terminals.
- 勿将正负极接反;
- Do not connect the battery directly to wall outlets or car cigarette-lighter sockets.
- 勿将电池直接连接到墙上插座或车载点烟式插座上;
- Do not put the battery into a fire or apply direct heat to it.
- 勿将电池投入火中或给电池加热;
- Do not short-circuit the battery by connecting wires or other metal objects to the positive (+) and negative (-) terminals.
- 禁止用导线或其它金属物体将电池正负极短路;
- Do not carry or put the battery together with necklaces, hairpins or other metal objects.
- 禁止将电池和项链,发夹和其它金属物品放置在一起。
- Do not strike, throw or subject the battery near a fire or in extremely hot conditions.
- 禁止将电池投放到较热的容器里。

### **Warning! 警告!**

Failure to observe the following precautions may result in battery leakage, overheating, explosion and/ or fire. 不仔细阅读下述事项可能导致电池泄露、爆炸或起火。

- Do not place the battery in a microwave oven or pressurized container.
- 禁止将电池置入微波炉或压力容器中;
- Do not use the battery in combination with primary batteries (such as dry-cell batteries) or batteries of different



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capacity, type or brand.

- 禁止与一次电池（如干电池）或不同容量、型号、品种电池组合使用；
- Do not use the battery if it gives off an odor, generates heat, becomes ct the battery to sever physical shock.
- 如果电池发出异味、发热、变形、变色或出现其它任何异常现象时不得使用；如果电池正在使用或充电，应立即从用电器中或充电器上取出并停止使用；
- Do not pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it.
- 禁止用钉子或其它尖锐物体刺穿电池壳体，禁止锤击或脚踏电池；
- Do not directly solder the battery terminals. 禁止直接焊接电池端子。
- Do not attempt to disassemble or modify the battery in any way. 禁止以任何方式分解电池。
- Do not recharge discolored or deformed, or appears abnormal in any way. If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue use.
- 如果电池发出异味、发热、变形、变色或出现其它任何异常现象时不得使用；如果电池正在使用或充电，应立即从用电器中或充电器上取出并停止使用；
- If the battery leaks or emits an odor, immediately remove it from the proximity of any exposed flame. The leaking electrolyte can ignite and cause a fire or explosion.
- 如果电池泄漏或发出异味，应立即将其从接近明火处移开；泄漏的电解液可能引起火灾或爆炸；
- If the battery leaks and electrolyte gets in your eyes, do not rub them. Instead, rinse them with clean running water and immediately seek medical attention. If left as is, electrolyte can cause eye injury.
- 如果电池漏液后电解液进入眼睛，不要擦，应用水冲洗，立即寻求医疗救助。如不及时处理，眼睛将会受到伤害。
- In cases where children use the battery, instruct them on the contents of the user's guide and keep an eye on them to ensure that the battery is being used correctly. 当小孩使用电池时，需要按用户说明书的内容教他们，并密切注意他们确保正确使用电池。
- If the battery leaks and electrolyte gets your skin or clothing, immediately rinse the affected area with clean running water. If left as is, skin inflammation can occur. 如果电池漏液，电解液弄到皮肤或衣服上，立即用流动的水清洗受影响区域，否则可能导致皮肤发炎
- For directions on battery installation and removal, read the instruction manual that accompanies the equipment in which the battery will be used. 阅读用电池的装置说明书，正确进行电池的安装与拆卸。
- If a device is not used for an extended period, the battery should be removed and stored in a cool, dry place. Otherwise, resting or reduced performance may occur. 如果设备长期不用，将电池取出并放置在凉爽、干燥的地方，否则，电池可能生锈或性能变差。
- If the terminals of the battery are dirty, wipe them clean with dry cloth before use. Otherwise, solid electrical contact may not be charged with the equipment, and this can cause power outages or charging to fail. 如果电池的端子变脏，使用前用干布擦干净。否则电池会接触不良，从而引起能量损耗或无法充电。

## 6. Storage and Others 贮存及其它事项

### 6.1 long time storage 长期贮存。

If the battery is stored for a long time(exceed three months), it should be stored in drying and cooling place. The battery should be fully charged and discharged every six months. The storage voltage of each single cell should be 3.7~3.9V

长期储存的电池（超过3个月）须置于干燥、凉爽处。每6个月对电池进行一次完全充放电。储存电压为3.7~3.9V(电池组中串联的每节电池)。

### 6.2 others 其它

Any matters that this specification does not mentioned must consult the customer and FENGCHI to



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determine.

本规格书中未提及的事项，须经双方协商确定。





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