



APPROVE SHEET



For

Lithium ion polymer rechargeable battery

(锂聚合物电池承认书)

Customer (客户) : _____

Battery model name (电池型号) : H201024 22mAh

Customer model Number (客户): _____ 158

Date(日期) : _____ 2012/03/28

REVISED(版本) : _____ V4.0

Doc.No: (编号): _____ Spec-Pack-3123A

Customer approval(客户承认)

Empty box for customer approval signature and date.

Approved 核准	Checked 审核	Prepared 制定

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REVISION AND UPDATES 更改记录

REVISED 更改 项目	DESCRIPTION 内容描述	Date 更改日期
1.0	New Issue	2011/05/27
2.0	長度改為 21.0±0.5mm	2011/08/25
	增加极耳长度标示	2011/10/17
3.0	修改极耳长度为 5.88±0.5mm (含极耳胶), 修改成品重量为 2.2±0.5g, 修改 PACK 后极耳的样式, page7/15 增加电芯 pack 尺寸图	
	打码正面内容与背面内容对调	2012/02/14
4.0	增加 PACK 尺寸圖, 删除外壳部分内容	2012/03/28

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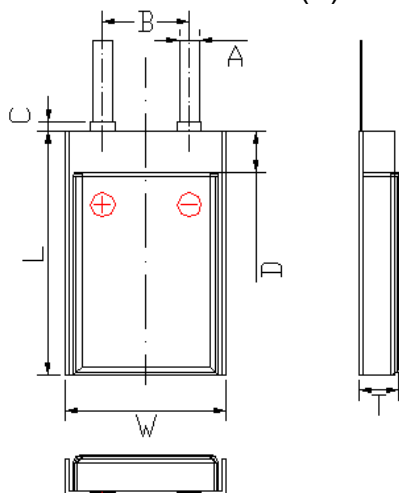
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1. Cell Type and Model 电芯型号

1.1 Cell Type : Lithium Ion Polymer Battery 电芯类型：聚合物锂离子电池

1.2 Cell Model :H201024 电芯型号：H201024

1.3 Cell Outer Dimension:2.0±0.2mm (T)×10.0±0.5mm (W)×21.0±0.5(L)电芯外观尺寸：



T 厚(mm)	2.0±0.2
W 宽(mm)	10.0±0.5
L 长(mm)	21.0±0.5
A (mm):TAB 极耳宽	2.0
B(mm): TAB SPACE 极耳中心距	5.0±1.0
C(mm): TAB GLUE 极耳外露胶宽	0.5~2.0
D 正封边宽(mm)	3.5±1.0
极耳长度 (mm)	5.88±0.5mm (含极耳胶)

2. Cell Performance 电芯特性

Item 项目	Specification 参数	Remark※备注
2.1 Typical Capacity 标称容量	22mAh	0.2C discharge
Minimum Capacity 最小容量	20mAh	0.2C discharge
2.2 Nominal Voltage 标称电压	3.7V	
2.3 End Voltage 放电截至电压	2.75V	
2.4 Charging Current (Std.)标准充电电流	0.2CA(=4.4mA)	Ambient temperature 环境温度 0~+40℃
2.5 Charging Current (Max.)最大充电电流	1.0CA(=22mA)	Ambient temperature 环境温度 0~+40℃
2.6 Charging Voltage 充电截至电压	4.2±0.03V	
2.7 Charging Time (Std.)标准充电时间	6~7.0 hours	
2.8 Charging Time (Max.)快速充电时间	2~3.0 hours	
2.9 Discharging Current (Std.)标准放电电流	4.4mA	Ambient temperature 环境温度-20~+60℃
2.10 Discharging Current (Max.) 最大放电电流	44mA	Ambient temperature 环境温度 -20~+60℃
2.11 Cell Internal Resistance 电芯内阻(25℃)	<900mΩ	AC Impedance 交流内阻 1KHz
2.12 Weight 重量	0.7±0.2g	Battery only 仅电芯
2.13 Temperature range for storage 储存温度范围	less than 1 month 一个月以内	-20~+60℃
	less than 3 month 三个月以内	-20~+40℃
	less than 1 year 一年以内	-20~+20℃

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※ (1).Percentage of recoverable capacity

$$=(\text{discharging time after storage} / \text{discharging time Initial}) \times 100\%$$

恢复容量= (储存后放电时间/初始放电时间) ×100%

(2).Discharging time is estimated by the discharge at 0.2CA to end voltage 2.75V after fully charged according to specification at approximately 25°C.

放电时间指的是在约 25°C 下将电池按规格书要求充满电后 0.2C 放电至 2.75V.的时间。

3. Battery Cell Performance Criteria 电芯性能检查及测试

Before proceed the following tests, the cells should be discharged at 0.5C to 2.75V cutoff. Unless otherwise stated, tests should be done within one month of delivery under the following conditions:

在进行下列各项测试前每颗电池应用 0.5C 放至 2.75V。如果没有特别规定，测试应在电池交付 1 个月内按以下各项条件进行：

Ambient temperature 环境温度:20°C±5°C

Relative Humidity 相对湿度: 65±20%

Note Standard Charge/Discharge Conditions 注意标准充放电为：

充电 Charge: 4.4mAh(0.2C) to 4.2V

放电 Discharge: 4.4mAh(0.2C) to 2.75V/cell

测试项目 Test	单位 Unit	规格 Specification	条件 Condition	备注 Remarks
高倍率放电 High Rate Discharge (2C)	min	Max 2C	标准充电/休息 5 分钟 用 2C 放电至 3.0V Standard Charge/rest 5min discharge at 2C to 3.0V	
自放电 Charge reserve	%	≥85% (初始容量 First capacity)	标准充满电后 20 度贮藏 30 天, 标准 0.5C 放电 Standard charge Storage at 20 degree: 30days Standard discharge (0.5C)	3.0V/cell Cut-off
过充电压 OverCharging Voltage	V	不着火不爆炸 No fire and no explosion	标准充电到 4.2V, 再以 0.5C/5V 充电 6 小时。 Standard Charge to 4.20V, 0.5C/5V Charge 6h.	

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寿命测试 Cycle Life Test	Cycle	≥300	充电: 1C 充电至 4.2V, 放电: 1C 放电至 2.75V, 当放电容量降至初始容量的 80%时, 所完成的循环次数定义为该电芯的循环寿命 Charge:1C to 4.2V ,Discharge: 1C to 2.75V, 80% or more of 1st cycle capacity at 0.5C discharge of Operation	
短路测试 External Short Circuit	N/A	不着火不爆炸 No fire and no explosion	标准充电后, 在 20°C±5 环境中用超过 0.75mm ² 金属丝将单颗电池短路至电池恢复到常温。 After standard charge, short-circuit the cell at 20°C±5°C until the cell temperature returns to ambient temperature.(cross section of the wire or connector should be more than 0.75mm ²)	*
自由跌落测试 Free falling(drop)	N/A	不着火不爆炸 No fire and no explosion	跌标准充电后, 搁置 2 小时。从 50CM 高任意方向自由跌落 30MM 厚木板 3 次 Standard Charge,andthen leave for 2hrs,check battery before / after drop Height: 50 cm Thickness of wooden board: 30mm Direction is not specified Test for 3 times	*

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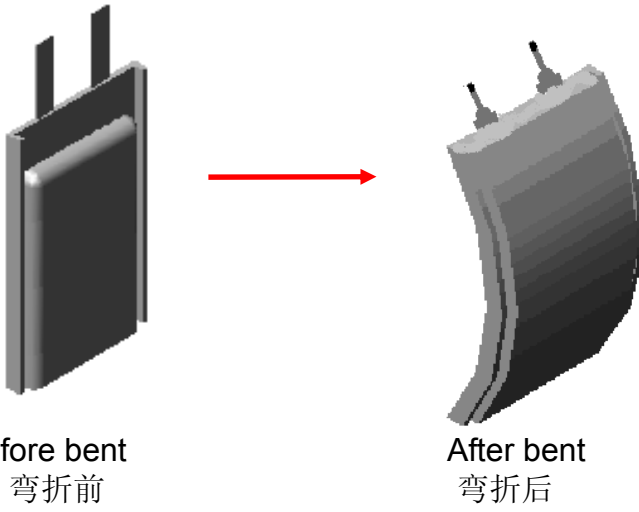
4.Pack Performance 电池组特性

4.1 Pack Electron Performance 电性能:

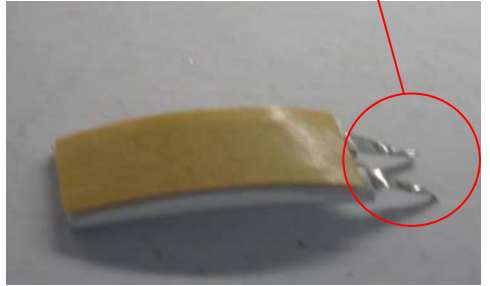
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5.1.2 Nominal Voltage 标称电压	3.7V		
5.1.3 End Voltage 放电截至电压	2.75V		
5.1.4 Charging Current (Std.) 标准充电电流	4.4mA	Ambient temperature 环境温度 0~+40℃	
5.1.5 Charging Current (Max.) 最大充电电流	22mA	Ambient temperature 环境温度 0~+40℃	
5.1.6 Charging Voltage 充电截至电压	4.20±0.025V		
5.1.7 Charging Time (Std.) 标准充电时间	6~7.0 hours		
5.1.8 Charging Time (Max.) 快速充电时间	2~3.0 hours		
5.1.9 Discharging Current (Std.) 标准放电电流	4.4mA	Ambient temperature 环境温度-20~+60℃	
5.1.10 Continuous Discharging Current (Max.) 最大持续放电电流	44mA	Ambient temperature 环境温度-20~+60℃	
5.1.10 Discharging Current (Max.) 最大放电电流	44mA	Ambient temperature 环境温度-20~+60℃	
5.1.11 Soft Pack Internal Resistance 成品内阻(25℃)	<900mΩ	AC Impedance 交流内阻 1KHz	
5.1.12 Soft pack Weight 成品重量	2.2±0.5g		
5.1.13 Temperature range for storage 储存温度范围	less than 1 month 一个月以内	-20~+60℃	Percentage of recoverable capacity 恢复容量 80%
	less than 3 month 三个月以内	-20~+40℃	
	less than 1 year 一年以内	-20~+20℃	

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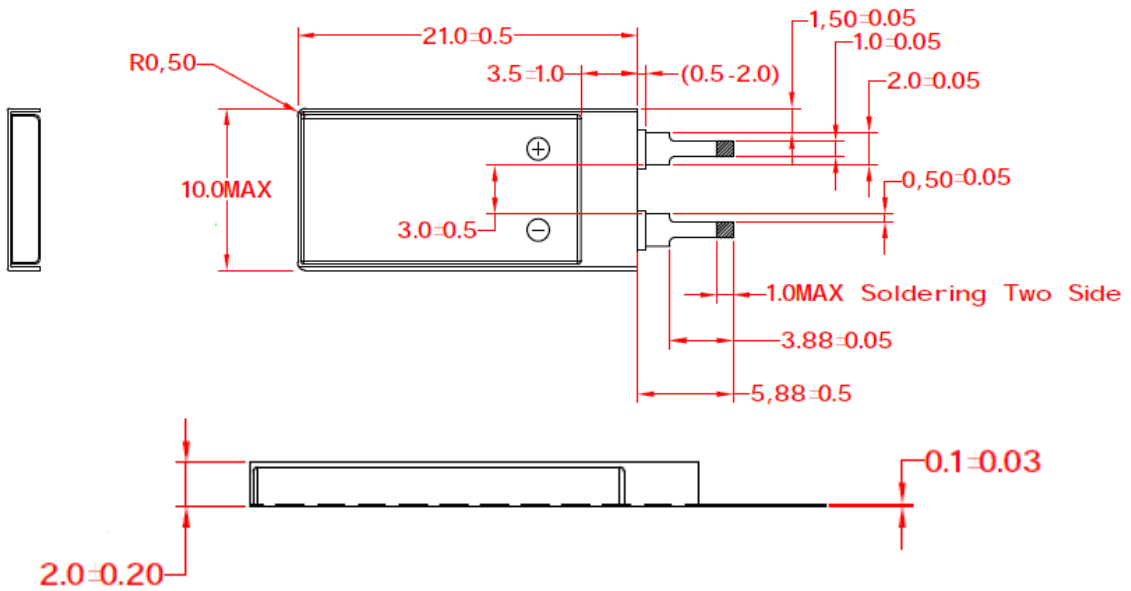
4.2 Battery Pack Dimension:



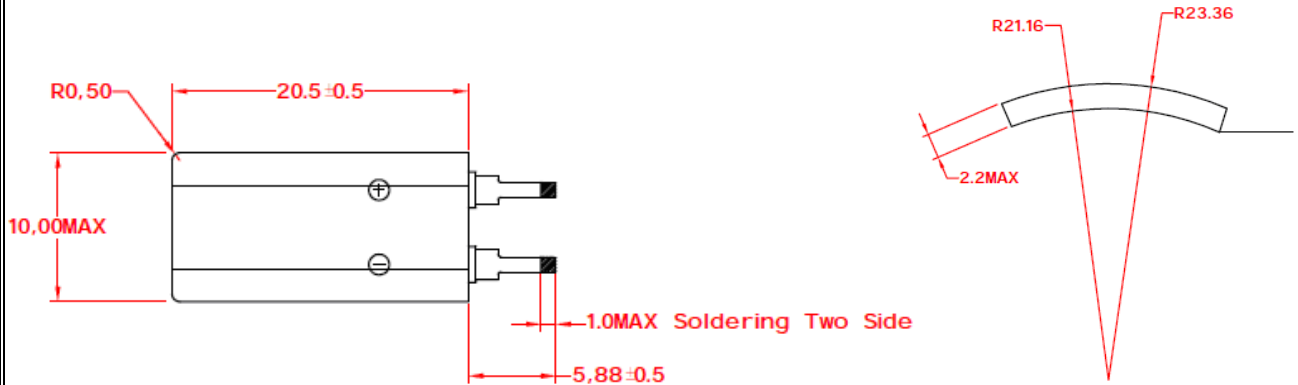
兩面极耳需加锡



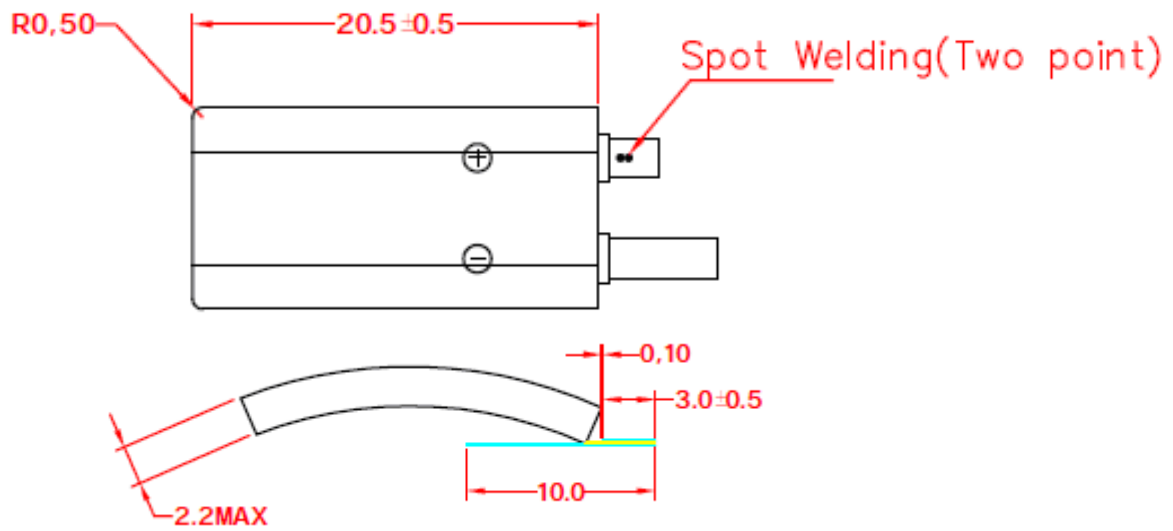
Before bent 弯折前:



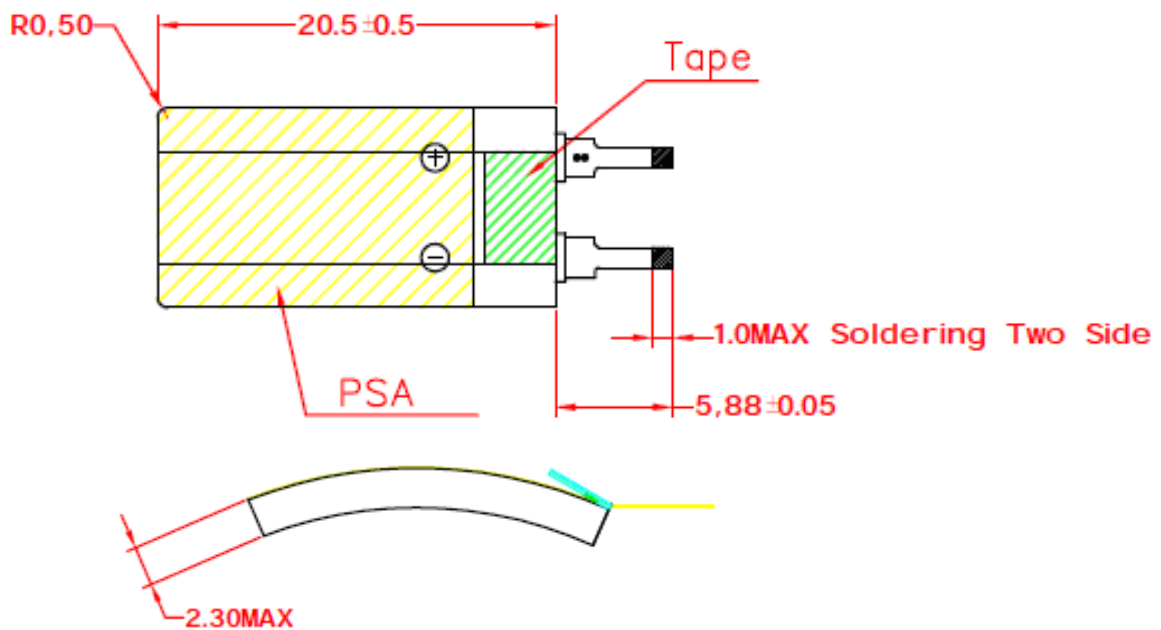
After bent 弯折后:



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The First Step: a) The AI-Band is wrapped in Ni-band and two points spot welding



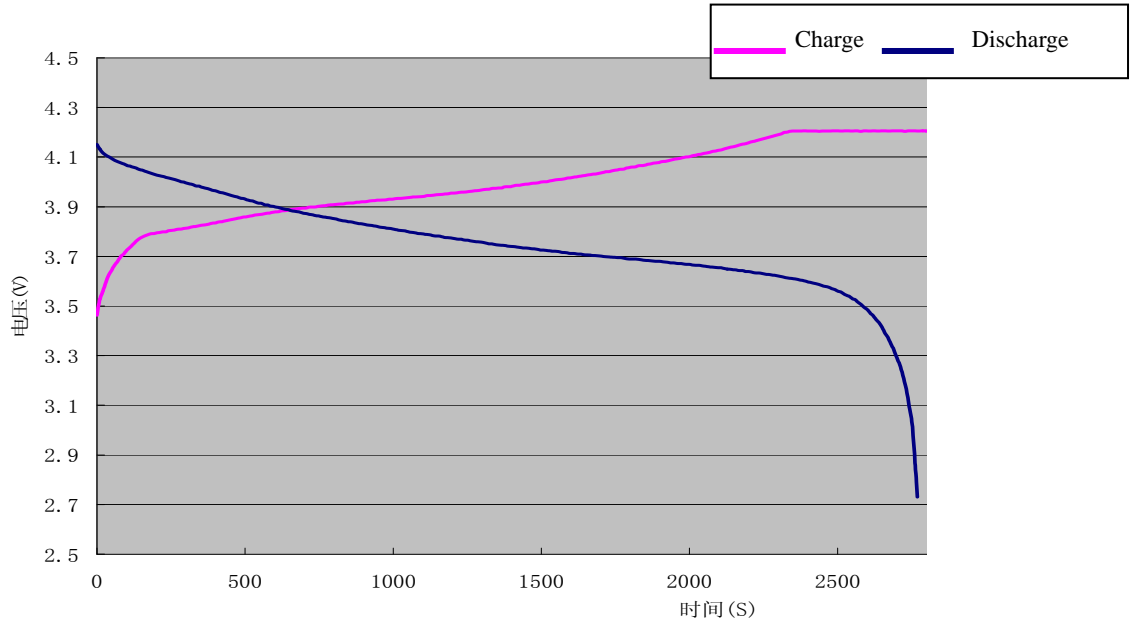
The Second Step: a) Stick gule b) Fold the Ni-band onto the cell body c) Tape

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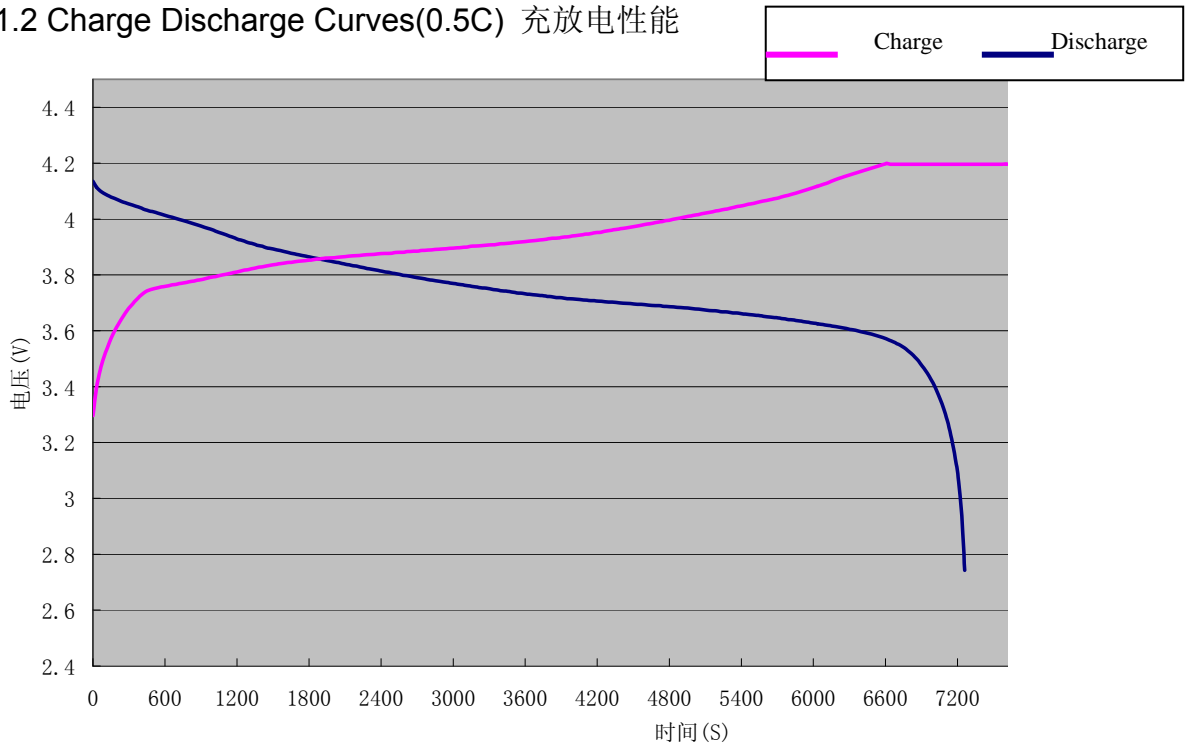
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5. Charge Discharge Curves 充放电性能

5.1.1 Charge Discharge Curves(1C) 充放电性能



5.1.2 Charge Discharge Curves(0.5C) 充放电性能



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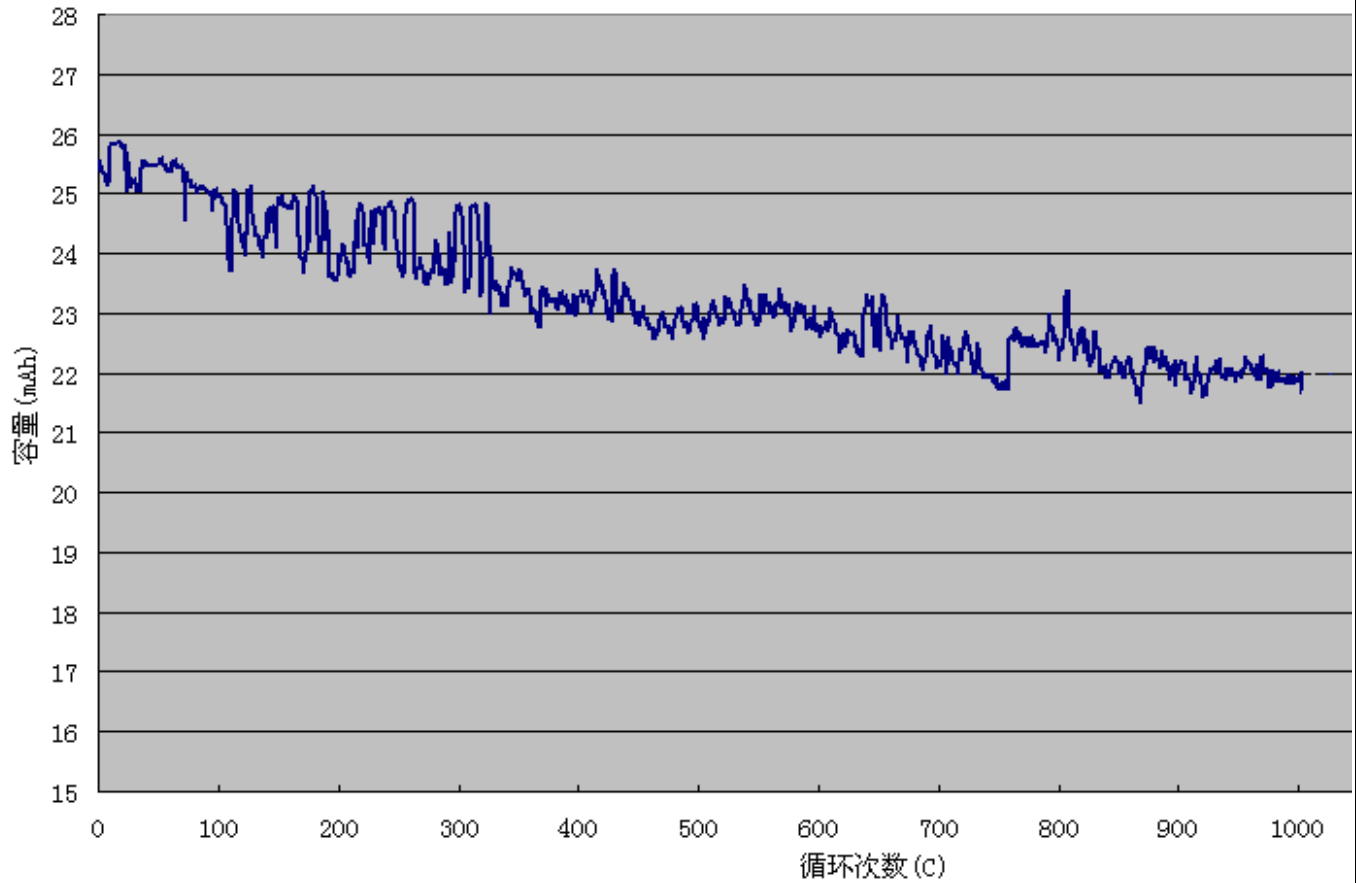
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5.2 Cycle Life Curves 循环寿命

Temperature: 20°C ~ 25°C

Charge Condition: 1C to 4.2V, 0.05C cut off

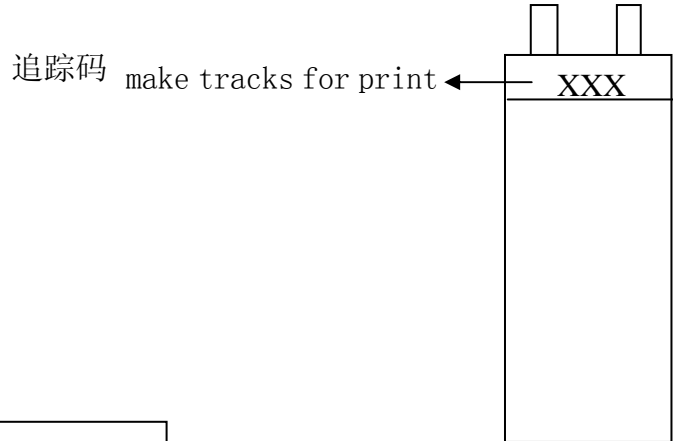
Discharge Condition: 1C to 2.75V cut off



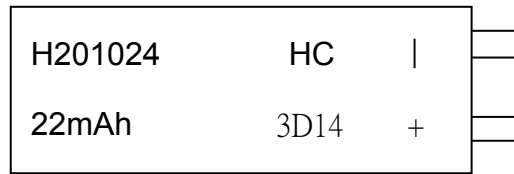
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6. Print Method 打码样式

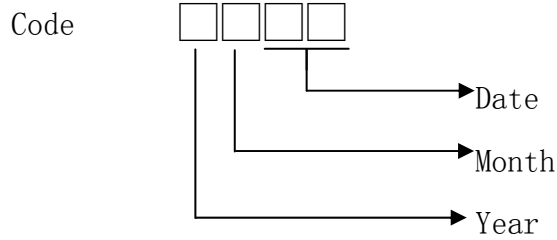


背面打码:



Code 编码

正面打码:



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<p>7. Storage And Others 贮存及其它事项</p> <p>7.1 Ambient temperature 环境温度: 20°C±5°C Relative Humidity 相对湿度: 65±20%</p> <p>7.2 please activate the battery once every 3 months according to the following method: Charge at 0.2C to 4.2V, rest 5 min, then discharge with 0.2C to 2.75V/cell, rest 5 min, then charge at 0.2C to 3.9V。请每隔 3 个月按下面方法激活电池一次:0.2C 充电至 4.2V, 休息 5 分钟, 然后用 0.2C 放电至每颗电池 2.75V, 休息 5 分钟, 0.2C 充电 3.9V。</p> <p>8. Handling Precautions And Guidline 聚合物锂离子充电电芯操作指示及注意事项</p> <p>Note(1): The customer is requested to contact PSE in advance, if and when the customer needs other applications or operating conditions than those described in this document. Additional experimentation may be required to verify performance and safety under such conditions. 声明一: 客户若需要将电芯用于超出文件规定以外的设备, 或在文件规定以外的使用条件下使用电芯, 应事先联系基安彼, 因为需要进行特定的实验测试以核实电芯在该使用条件下的性能及安全性。</p> <p>Note(2): PSE will take no responsibility for any accident when the cell is used under other conditions than those described in this Document 声明二: 对于在超出文件规定以外的条件下使用电芯而造成的任何意外事故, 基安彼概不负责。</p> <p>Note(3): PSE will inform, in a written form, the customer of improvement(s) regarding proper use and handing of the cell, if it is deemed necessary. 声明三: 如有必要, 基安彼会以书面形式告之客户有关正确操作使用电芯的改进措施。</p> <p>8.1 Charging 充电</p> <p>8.1.1 Charging current 充电电流: Charging current should be less than maximum charge current specified in the Product Specification. Charging with higher current than recommended value may cause damage to cell electrical, mechanical and safety performance and could lead to heat generation or leakage。 充电电流不得超过本标准书中规定的最大充电电流。使用高于推荐值电流充电将可能引起电芯的充放电性能、机械性能和安全性能的问题, 并可能会导致发热或泄漏。</p> <p>8.1.2. Charging voltage 充电电压: Charging shall be done by voltage less than that specified in the Product Specification (4.2V/cell). Charging beyond 4.25V, which is the absolute maximum voltage, must be strictly prohibited. The charger shall be designed to comply with this condition. It is very dangerous that charging with higher voltage than maximum voltage may cause damage leakage.</p>				
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充电电压不得超过本标准书中规定的额定电压（4.2V/电芯）。4.25V 为充电电压最高极限，充电器的设计应满足此条件；电芯电压高于额定电压值时，将可能引起电芯的充放电性能、机械性能和安全性能的问题，可能会导致发热或泄漏。

8.1.3 Charging temperature 充电温度:

The cell shall be charged within 0°C~45°C range in the Product Specification.

电芯必须在 0°C~45°C 的环境温度范围内进行充电

8.1.4. Prohibition of reverse charging 禁止反向充电:

Reverse charging is prohibited. The cell shall be connected correctly. The polarity has to be confirmed before wiring, In case of the cell is connected improperly, the cell cannot be charged. Simultaneously, the reverse charging may cause damaging to the cell which may lead to degradation of cell performance and damage the cell safety, and could cause heat generation or leakage.

正确连接电池的正负极，严禁反向充电。若电池正负极接反，将无法对电芯进行充电。同时，反向充电会降低电芯的充放电性能、安全性，并会导致发热、泄漏。

8.2 Discharging 放电

8.2.1 Discharging current 放电电流:

The cell shall be discharged at less than the maximum discharge current specified in the Product Specification. High discharging current may reduce the discharging capacity significantly or cause over-heat.

放电电流不得超过本标准书规定的最大放电电流，大电流放电会导致电芯容量剧减并导致过热。

8.2.2. Discharging temperature 放电温度

The cell shall be discharged within -20°C~60°C range specified in the Product Specification
电芯必须在-20°C~60°C的环境温度范围内进行放电。

8.2.3. Over-discharging 过放电:

It should be noted that the cell would be at over-discharged state by its self-discharge characteristics in case the cell is not used for long time. In order to prevent over-discharging, the cell shall be charged periodically to maintain between 3.6V and 3.9V. Over-discharging may causes loss of cell performance, characteristics, or battery functions. The charger shall be equipped with a device to prevent further discharging exceeding a cut-off voyage specified in the Product Specification. Also the charger shall be equipped with a device to control the recharging procedures as follows:

The cell battery pack shall start with a low current (0.01C) for 15-30 minutes, i.e.-charging, before rapid charging starts. The rapid charging shall be started after the (individual) cell voltage has been reached above 3V within 15-30 minutes that can be determined with the use of an appropriate timer for pre-charging. In case the (individual) cell voltage does not rise to 3V within the pre-charging time, then the charger shall have functions to stop further charging and display the cell/pack is at abnormal state.

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<p>需要注意的是，在电芯长期未使用期间，它可能会用其它自放电特性而处于某种过放电状态。为防止放电的发生，电芯应定期充电，将其电压维持在 3.6V 至 3.9V 之间。过放电会导致电芯性能、电池功能的丧失。充电器应有装置来防止电池放电至低于本标准书规定的截止电压。此外，充电器还应有装置以防止重复充电，步骤如下：</p> <p>电池在快速充电之前，应先以一小电流（0.01C）预充电 15~30 分钟，以使（每个）电芯的电压达到 3V 以上，再进行快速充电。可用一记时器来实现该预充电步骤。如果在预充电规定时间内，（个别）电芯的电压仍未升到 3.0V 以上，充电器应能够停止下一步快速充电，并显示该电芯/电池正处于非正常状态。</p> <p>8.3. Storage 贮存:</p> <p>The cell shall be storied within -10℃~45℃ range environmental condition,If the cell has to be storied for a long time (Over 3 months),the environmental condition should be;Temperature: 23±5℃ Humidity: 65±20%RH, The voltage for a long time storage shall be 3.6V~3.9V range. 电芯储存温度必须在-10℃~45℃的范围内,长期存储电池（超过 3 个月）须置于温度为 23±5℃、湿度为 65±20%RH 的环境中,贮存电压为 3.6V~3.9V</p> <p>8.4. Handling of Cells 电芯操作注意事项:</p> <p>Since the battery is packed in soft package, to ensure its better performance, it's very important to carefully handle the battery;</p> <p>由于电芯属于软包装，为保证电芯的性能不受损害，必须小心对电芯进行操作。</p> <p>8.4.1. The soft aluminum packing foil is very easily damaged by sharp edge parts such as Ni-tabs, pins and needles.</p> <p>铝箔包装材料易被尖锐部件损伤，诸如镍片，尖针。</p> <p>Don't strike battery with any sharp edge parts;</p> <p>禁止用尖锐部件碰撞电池;</p> <p>Trim your nail or wear glove before taking battery;</p> <p>取放电芯时，请修短指甲或戴上手套;</p> <p>Clean worktable to make sure no any sharp particle;</p> <p>应清洁工作环境，避免有尖锐物体存在;</p> <p>8.4.2 Don't bend or fold sealing edge;禁止弯折顶封边;</p> <p>8.4.3 Don't open or deform folding edge;禁止打开或破坏折边;</p> <p>8.4.4 Don't bend tab 禁止弯折极片;</p> <p>8.4.5 Don't Fall, hit, bend battery body;禁止坠落、冲击、弯折电芯;</p> <p>8.4.6 Short terminals of battery is strictly prohibited, it may damage battery;</p> <p>任何时候禁止短路电芯，它会导致电芯严重损坏;</p>				
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<p>8.5 Notice Designing Battery Pack 电池外壳设计; Battery pack should have sufficient strength and battery should be protected from mechanical shock. 电池外壳应有足够的机械强度以保证其内部电芯免受机械撞击; No Sharp edge components should be inside the pack containing the battery 外壳内安装电芯的部位不应有锋利的边角;</p> <p>8.6 Notice for Assembling Battery Pack 电芯与外壳组装注意事项</p> <p>8.6.1. Tab connection 电芯的连接 Ultrasonic welding or spot welding is recommended to connect battery with PCM or other parts.If apply manual solder method to connect tab with PCM, below notice is very important to ensure battery performance. 建议使用超声波焊接或点焊技术来连接电芯与保护电路模块或其它部分。如使用手工锡焊，须注意以下事项，以保证电芯的功能： A. The solder iron should be temperature controlled and ESD safe 烙铁的温度可控能防静电; B.Soldering temperature should not exceed 烙铁温度不能超过 350℃ C.Soldering time should not be longer than 3s 锡焊时间不能超过 3 秒; D. Soldering time should not exceed 5 times Keep battery tab cold down before next time solderingDirectly heat cell body is strictly prohibited, Battery may be damaged by heat above approx.100℃ 锡焊次数不能超过 5 次必须在极片冷却后再进行二次焊接；禁止直接加热电芯，高于 100℃会导致电芯损坏。</p> <p>8.6.2. Cell fixing 电芯的安装 The battery should be fixed to the battery pack by its large surface area。 应将电芯的宽面安装在外壳内； No cell movement in the battery pack should be allowed. 电芯不得在壳内活动。</p> <p>9 Others 其它事项</p> <p>9.1 Prevention of short circuit within a battery pack Enough insulation layers between wiring and the cells shall be used to maintain extra safety protection。 防止电池内短路 使用足够的绝缘材料对线路进行保护。</p>				
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<p>9.2 Prohibition of disassembly 严禁拆卸电芯</p> <p>9.2.1. The disassembling may generate internal short circuit in the cell, which may cause gassing, firing, or other problems 。 拆卸电芯可能会导致内部短路，进而引起鼓气、着火及其它问题。</p> <p>9.2.2. LIP battery should not have liquid from electrolyte flowing, but in case the lectrolyte come into contact with the skin, or eyes, physicians shall flush the electrolyte immediately with fresh water and medical advice is to be sough。 聚合物锂电池理论上不存在流动的电解液，但万一有电解液泄漏而接触到皮肤、眼睛或身体其它部位，应立即用清水冲洗电解液并就医。</p> <p>9.3 Never incinerate nor dispose the cells in fire. These may cause firing of the cells, which is very dangerous and is prohibited. 在任何情况下，不得燃烧电芯或将电芯投入火中，否则会引起电芯燃烧，这是非常危险的，应绝对禁止。</p> <p>9.4 The cells shall never be soaked with liquids such as water, seawater drinks such as soft drinks, juices coffee or others 不得将电芯浸泡液体，如淡水、海水、饮料(果汁、咖啡)等</p> <p>9.5 The battery replacement shall be done only by either cells supplier or device supplier and never be done by the user. 更换电芯应由电芯供应商或设备供应商完成，用户不得自行更换</p> <p>9.6 Prohibition of use of damaged celsl 禁止使用已损坏的电芯</p> <p>The cells might be damaged during shipping by shock. If any abnormal features of the cells are found such as damages in a plastic envelop of the cell, deformation of the cell package, smelling of electrolyte, electrolyte leakage and others, the cells shall never be used any more. The cells with a smell of the electrolyte or a leakage shall be placed away from fire to avoid firing. 电芯在运输过程中可能因撞击等原因而损坏，若发现电芯有任何异常特征，如电芯塑料封边损坏，外壳破损，闻到电解液气体，电解液泄漏等，该电芯不得使用。 有电解液泄漏或散发电解液气味的电池应远离火源以避免着火。</p>				
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