Cell Specification Approval Sheet
电池芯规格书

Model/型号： C5E2240-04

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Customer Approval 审核-客户	**Signature 签名**	**Date 日期**
	Company Name: **公司名称**	
	Company Stamp ： **公司盖章**	

AMENDMENT RECORDS

修改记录

Revision /版本	**Description/ 描述**	**Date/ 日期**	**Prepared/ 准备**	**Approval/审核**
A0	For Reference	2024-04-02	YP	Bob Hu

CONTENTS/内容

1. General Information/基本信息

1.1. Scope/范围

This document describes the Product Specification of the Rechargeable Lithium-ion Battery C5E2240-04 supplied by Li-Fun (Li-Fun Technology Co., Ltd).

本产品规格书描述的是由湖南立方新能源科技有限责任公司供应的型号为 C5E2240-04 之锂离子二次电池单体。

1.2. Model/型号: *C5E2240-04*

1.3. Application/应用:

Rechargeable Lithium-ion Battery for *EV or ESS* Application.*电动车 或 储能系统* 用锂离子二次电池单体。

2. Specification/规格

2.1. Normal Specification/基本规格*

No.	Items/项目	Specification/规格	
1	Charge voltage (V)/充电截至电压	3.65	
2	Nominal voltage (V)/标称电压	3.20	
3	Minimal capacity(Ah@0.2C discharge to 2.5V, 30±2℃)/最小容量(C_m)	38.0	
4	Typical capacity(Ah@0.2C discharge to 2.5V, 30±2℃)/标称容量(C_t)	39.0	
5	Standard charging method(@25±2°C)/ 标准充电方法	0.2C_m CC Charge to 3.65V, then CV to 0.02C_m cutoff 电芯用 0.2C（A）恒流恒压至 3.65V，截止电流 0.02C（A）	
6	Charging time (h)(Ref.)(@25±2°C)/ 充电时间	5.5h	
7	Max continuous/pulse charge current (C)/ 最大连续/脉冲充电电流(10S)	1.0/1.5	
8	Max continuous/pulse discharge current (C)/最大连续/脉冲放电电流(10S)	3.0/4.0	
9	Discharge Cut-off Voltage (V)/ 放电截至电压	@ > 0 °C	2.5
		@ ≤ 0°C	2.0
10	Operating temperature (°C)/ 充放电温度窗口	Charging temperature: 0~ 45 充电温度： 0~ 45 Discharging temperature: -20 ~ 60 放电温度：-20 ~ 60	
11	Storage environment (°C)/ 存储环境	-20 to 45	1month recovery capacity≧90% 1 个月恢复容量≧90%
		-20 to 35	3month recovery capacity≧90% 3 个月恢复容量≧90%
		-20 to 25	12month recovery capacity≧90% 12 个月恢复容量≧90%
		After ~50% charged Cell are stored at 35°C for 3months or RT for 12months or 45°C for 1 month, measure the recovered capacity with Standard charge/discharge method @ RT environment ≥90% of initial capacity. 约50%SOC电芯于35℃恒温下静置3个月，或是25℃静置12个月，45℃恒温静置1个月，可恢复容量≥90%*常温下标准充/放电测得的初始容量。	
12	ACIR@RT, 50%-SOC (mohm) / 交流阻抗	≤1.2	
13	Cell Weight Approx. (kg)/电芯重量	0.72	

2.2. Recommended Charge Specification/建议充电规格*

No	Item/项目	Specification/规格	Condition/条件
1	Standard Charge/ 标准充电	$0.2C_m$	Constant Current 恒定电流
		3.65V	Constant Voltage 恒定电压
		$0.02C_m$	Cut off Current 截止电流
		0~+45°C	Temperature 温度
2	Semi-fast Charge/ 中速充电	$0.5C_m$	Constant Current 恒定电流
		3.65V	Constant Voltage 恒定电压
		$0.05C_m$	Cut off Current 截止电流
		+10~+45°C	Temperature 温度
3	Fast Charge/ 快速充电	$1.0C_m$	Constant Current 恒定电流
		3.65V	Constant Voltage 恒定电压
		0.02C	Cut off Current 截止电流
		+25~+45℃	Temperature 温度

2.3. Operating Temperature Specification/操作温度规格

No	Item/项目	Specification/ 规格	Condition/条件
1	Continuous Operation 适宜之操作环境	10 ~ 35°C	Continuous operation is a condition where the battery will experience on a frequent basis and maintain its designed performance. 连续运行是指电池将频繁经历并保持其设计性能的条件。
2	Excursion 拓展之操作环境	-20 ~10°C 36 ~ 55°C	Excursion is a condition where the battery may experience on an infrequent basis and be used with reduced performance. 电芯进行在拓展操作环境下工作，会影响电池性能。

2.4. Protection Limit Specification/保护限制

No	Item/项目	Specification /规格	Condition/条件
1	1st Over Voltage Limit/ 一级过充电压保护	≤3.75V	The battery may experience this voltage on an infrequent basis. When the battery's voltage reaches this limit, the charging power shall be reduced to zero. 电芯可能持续充电若达到一级过充电压保护，需及时停止充电
2	2nd Over Voltage Limit/ 二级过充电压保护	≤3.80V	The battery shall not be used over this limit. 电芯使用过程中电压不可高于此临界值
3	1st Under Voltage Limit/ 一级过放电压保护	≥2.40V	The battery may experience this voltage on an infrequent basis. When the battery's voltage reaches this limit, the discharging power shall be reduced to zero. 电芯可能持续充电若达到一级过放电压保护，需及时停止放电电
4	2nd Under Voltage Limit/ 二级过放电压保护	≥2.00V	The battery shall not be used below this limit. 电芯使用过程中电压不可低于此临界值

3. Appearance 外观

No.	Item/项目	Specification/规格
1	Appearance/ 外观	There shall be no such defects as deep scratch, crack, rust, discoloration or leakage, which may adversely affect the commercial value of the cell. 不得存在可能对电池商业价值产生不利影响的深划痕、裂纹、锈蚀、变色或泄漏等缺陷。

4. Performance Specification/性能规格

4.1. Standard Test Condition/标准测试条件*

No	Item/项目	Specification/规格
1	0.2C Charge/ 0.2C 充电	Unless otherwise specified, "0.2C charge" shall consist of charging at constant current of 0.2*C_m A. The cell shall then be charged at constant voltage of 3.65V while the charging current is tapering to 0.02*C_m A. For test purposes, charging shall be performed at 25 ± 2°C. 在环境温度（25±2）℃下，采用先恒流再恒压方式充电。恒流电流为0.2C(A)，恒压电压为3.65V，在恒压过程中电流降到0.02C(A)终止充电。
2	0.2C Discharge/ 0.2C 放电	"0.2C Discharge" shall consist of discharging at a constant current of 0.2*C_m A to 2.5V. Discharging shall be performed at 25±2°C unless otherwise noted (such as capacity versus temperature). 在环境温度（25±2）℃下，采用恒流放电（除特殊说明外，如不同温度与容量关系）。恒流电流为0.2C(A)，截止电压 2.5V，终止放电。
3	0.7C-Charge/0.7C-Discharge Cycle/ 0.7C 充电/0.7C 放电循环	Cells shall be discharged at constant current of 0.7*C_m A to 2.5V. Cells shall be charged at constant current of 0.7*C_m A to 3.65V with end current of 0.05*C_m A. Cells shall be left for 10 minutes after both charge and discharge. 电芯先以 0.7C(A)电流恒流放电至 2.5V；再以 0.7C(A)电流恒流恒压充电至 3.65V，截止电流 0.05C(A)，作为一个充放电循环；充放电工步后搁置时间为 10 分钟。
4	0.3C-Discharge @Low Temperature/ 低温下 0.3C 放电	"0.3C Discharge at low temperature" shall consist of discharging at a constant current of 0.3*C_m A to1.5V. Discharging shall be performed at testing temperature. 电芯在特定的低温下，0.3C_m (A)电流恒流放电，截止电压1.5V。
5	Constant Current Charge (CC)/ 恒流充电	Cells shall be charged at constant current without constant voltage charge. 电芯恒电流充电，无恒电压工步。
6	1.0C-Charge/1.0C-Discharge Cycle/ 1.0C 充电/1.0C 放电循环	Cells shall be discharged at constant current of 1.0*C_m A to 2.5V. Cells shall be charged at constant current of 1.0*C_m A to 3.65V with end current of 0.05*C_m A. Cells shall be left for 10 minutes after both charge and discharge. 电芯先以 1.0C(A)电流恒流放电至 2.5V；再以 1.0C(A)电流恒流恒压充电至 3.65V，截止电流 0.05C(A)，作为一个充放电循环；充放电工步后搁置时间为 10 分钟。

4.2. Electrical Characteristics/电气性能*

No	Items	Test Method and Condition	Criteria
1	Initial Capacity/ 初始容量	Cells shall be charged per 4.1.1 and discharged per 4.1.2, sleep for 5 minutes, continuous cycle 10 times, take the maximum discharge capacity. The charging and discharging environment temperature is 30±2℃. 电芯应按照4.1.1和4.1.2进行充电和放电，静置时间为5min，连续循环10次，取最大放电容量，充放电环境温度为30±2℃。	≥38.0Ah
2	Dependency Capacity @ Low Temperature/ 低温放电性能	Cells shall be charged per 4.1.1 at 25 ± 2 ℃ and discharged per 4.1.4 at -20°C. 电芯按照4.1.1流程充电，然后以4.1.4流程-20°C低温放电。	≥19.0Ah

4.3. Durability Specification/寿命*

No.	Item/项目	Specification/规格	Condition/条件
1	Storage at High Temperature/ 高温存放性能	Capacity-Retention ≥95% of Initial ≥96% of C_m Capacity-Recovery ≥95% of Initial ≥96% of C_m Thickness Increased ≤3% of Initial 容量保持率 ≥95%初始容量 ≥96%C_m 容量恢复率 ≥95%初始容量 ≥96%C_m 厚度增长率≤3%	Cells shall be charged per 4.1.1 and discharged per 4.1.2 to get and record the Initial Capacity, then be charged per 4.11 to get and record the initial Impedance & Voltage & Thickness, then stored in a temperature-controlled environment at 60°C for 7 days. After storage, the cells should be taken out from the 60℃ to the RT environment, when the temperature of surface back to RT, test and record the Impendence &Voltage & Thickness , then discharged per 4.1.2 and cycled per 4.1.1 and 4.1.2 for 3 cycles to obtain the retention & recovered capacity. 电芯按照4.1.1流程充电，然后以4.1.2流程放电，获得初始放电容量；然后以4.1.1流程充电，记录初始的电压、内阻及厚度。将电芯于60℃恒温环境下存贮7天。存贮完毕，常温下测存贮后电压、内阻及厚度。电芯以4.1.2流程放电后及以4.1.1和4.1.2流程充放电3圈，计算容量保持率及容量恢复率。
2	Cycle Life at 25°C/ 循环寿命-I	≥ 80%	Cells shall be discharged and charged per 4.1.3 **3000** cycles at 25± 2°C. Then be discharged and charged per 4.1.1 & 4.1.2 three cycles to get the 3rd discharge capacity as the last discharge capacity .The last discharge capacity is to be compared with the first in percentage. 电池应在25±2°C下按照4.1.3方法进行**3000**次循环，然后按着4.1.1 & 4.1.2充放电方法循环3次，取第三次放电容量作为最后的放电容量。将最后的放电容量与第一次放电容量进行比较获得容量操持率。

3	Cycle Life at 55°C/ 循环寿命-II	≥ 80%	Cells shall be charged and discharged per 4.1.6 **500** cycles at 55± 2°C. The last discharge capacity is to be compared with the first in percentage. 电池应在55±2°C下按照4.1.6方法进行**500**次循环放电和充电。将最后一次放电容量与第一次放电容量进行比较获得容量保持率。

4.4. Safety Specification/安全特性*

No	Item/项目	Specification/规格	Condition/条件
1	Shock Test/ 震动测试	No Leakage 不漏液	Cells charged per 4.1.1 shall be subjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds. Cells are subjected to 6 shocks for each of the three mutually perpendicular axes (x, y, z).(UN Test) 根据4.1.1充电制式，电池受到峰值加速度为50gn、脉冲持续时间为11ms的半正弦冲击。对于三个相互垂直的轴（x，y，z）中的每一个，对电芯进行6次震动冲击。（UN测试）
2	Vibration Test/ 振动测试	No Leakage 不漏液	Cells charged per 4.1.1 shall be vibrated for 1 hour per each of the three mutually perpendicular axes (x,y, z).The vibration is a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes. (UN Test) 根据4.1.1充电流程，电池应在三个相互垂直的轴（x、y、z）上振动1h。振动是正弦波形，对数扫频在7Hz和200Hz之间，并在15min内返回到7Hz。（UN测试）
3	Impact Test/ 重物冲击	No Explode, No Fire 不起火、不爆炸	The cell charged per 4.1.1 is to be placed on a flat surface. Onto a 15.8 mm diameter bar placed across the center of the sample, a 9.1 kg mass is to be dropped from a height of 61 ± 2.5 cm. (UN Test) 将电芯以4.11流程充电，电池应放置在平坦的表面上。将9.1 kg的质量从61±2.5 cm的高度跌落到放置在样品中心的直径为15.8 mm的棒上。（UN测试）
4	Over-discharge Test/ 过放电测试	No Explode, No Fire 不起火、不爆炸	Cells charged per 4.1.1 shall be discharged at constant current of 1C for 90 minutes. 将电芯以4.1.1流程充电，以1C (A) 恒流放电90min。
5	External Short Circuiting Test/ 外短路测试	No Explode, No Fire 不起火、不爆炸	Cells shall be charged as per 4.1.1, and the positive and the negative terminal is connected with a total resistance of 30±10mΩ for 10 minutes，stand by for 1hour. 将电芯以4.1.1流程充电，之后将正极和负极用总电阻30±10mΩ 的电阻连接10分钟。观察1小时。
6	Heating Test/ 热冲击测试	No Explode, No Fire 不起火、不爆炸	Cells charged per 4.1.1, and the cell shall be heated in a circulating air oven at a rate of 5°C per minute. The test shall be terminated when the temperature of the cell reaches 130°C for 30 minutes，stand by for 1hour.

			将电芯以4.1.1流程充电，在循环空气烘箱中以每分钟5℃的速度加热。当电池温度达到130℃，持续30分钟，测试结束。观察1小时。
7	Crush Test/ 挤压测试	No Explode, No Fire 不起火、不爆炸	Cells charged per 4.1.1 are to be crushed against the crushing apparatus(GB 38031-2020-8.1.7). The test shall be terminated at a displacement of 15% of the cell's height, or the force does 100KN or 1000*weigh of cell,or the cell voltage reaches 0V. The test shall be performed with one of three axes (x, y, z) of each cell. 根据4.1.1充电的电池（参考GB 38031-2020-8.1.7）。试验应在电池高度的15%的位移处终止，或力达到100KN或1000*电池重量，或电池电压达到0V。试验应在每个电池的三个轴（x、y、z）中的一个轴上进行。
8	Overcharge 过充测试	No Explode, No Fire 不起火、不爆炸	Cells should be charged per 4.1.1 , then overcharged at 1Cm constant current with one power source applied ≥ 5.0V on the cell terminals , when the voltage be charged to 4.62V(1.1times of standard charge cut-off voltage) or SOC reached to 115%,the test should be stopped. Then observe for 1 hour at testing environment. (Please see the GB 38031-2020 8.1.3） 将电芯以 4.1.1 流程充电，外接电源≥5V，将电芯继续用 1C 恒流充电电压至 4.62V（1.1*截止电压）或 SOC 为 115%后停止充电，观察 1h。(参考：GB 38031-2020 8.1.3）
9	Nail Test 穿钉测试	No Explode, No Fire 不起火、不爆炸	Cells should be charged per 4.1.1.Using one steel nail with a diameter of 3mm, impale through the largest surface of the cell with one standard speed, and after stay1minute pull out the nail from the cell. 将电芯以4.11流程充电，用一根3mm直径的钢钉穿过电芯主体中心，停留1分钟后将钢钉拔出。

* Determined using Begin-Of-Life batteries (within 30days from the production date).
带“*”标记的测试应使用新鲜样品（即生产日 30 天之内的，没有经过使用的电池）。

4.5. Standard environmental test condition/标准测试环境条件

Unless otherwise specified, all tests stated in this Product Specification are conducted at below conditions:
除特殊注明外，本规格指定的所有测试应在以下环境中进行。
Temperature /温度: 25 ± 3 °C
Humidity/相对湿度: 65 ± 20% RH

5. Caution and Prohibition in Handing/操作提示和禁止事项

Below is warning for using the lithium ion rechargeable battery. Mishandling of the battery may cause heat, fire and deterioration in performance. Be sure to observe the following. /以下为锂离子二次电池的操作提示及禁止事项。
Cautions/注意事项

- When using the application equipped with the battery, refer to the user's manual before usage. Please read the specific charger manual before charging. /使用设备前请参照用户手册.给电池充电前请阅读专用充电器操作手册。
- When the cell is not charged after long exposure to the charger, discontinue charging. /长时间置于充电器上而不充电，请切断充电。

- Please check the positive (+) and negative (-) direction before packing. /进行成组前，请检查电池的正负极性。
- When a lead plate or wire is connected to the cell for packing, check out insulation not to short-circuit. /当使用导柱或线材进行电池包组装时，做好绝缘防护，避免短路。
- Battery must be stored separately. /电池必须隔离存放。
- Battery must be stored in a dry area with low temperature (≤25°C) for long-term storage. /电池如需长期存储，应存储在干燥和低温(≤25°C)环境下。
- Do not place the battery in direct sunlight or heat.不要将电池放在阳关直射处或热源附件。
- Do not use the battery in high static energy environment where the protection device can be damaged. /不要将电池放置在可能损害电池保护装置的高能态环境下。
- When rust or smell is detected on first use, please return the product to the seller immediately. /在第一次使用电池时，如发现有生锈或有味道，请立即退回厂商。
- The battery must be away from children or pets. /电池必须远离儿童或宠物。
- When cell life span shortens after long usage, please exchange to new cells. /当电池长期使用后至寿命终止后，请更换新电池。
- Do not wear metallic objects (ex. ring, watch, accessory, etc.) while handling battery cells. /不要穿戴金属物品（例如：戒指、手表等配饰）操作电池。
- When use cells for an assembly of module or pack, the “first-in, first-out” (FIFO) principle should be applied. /当用电芯组装模组或电池组时，适用“先入先出的原则”。
- Charge time should not be longer than specified in the manual. /充电时间不应超出手册中规格。
- Do not expose the battery to the outside of the operating temperature range specified in this document. /不要超出规定的温度范围操作电池。
- Do not charge and discharge with the maximum current for uninterrupted cycle. /规格书中的最大充电或放电电流不适用于不间断循环。
- It should be noted that during the long period when the cell is not used, it may be in a certain over-discharge state due to its self-discharge characteristics. To prevent the occurrence of over-discharge, the cell should be charged regularly and its voltage should be maintained between 3.3 and 3.5v.Over-discharge will lead to the loss of cell performance and battery function。/ 需要注意，在电芯长期未使用期间，它可能会因其它自放电特性而处于某种过放电状态。为防止过放电的发生，电芯应定期充电，将其电压维持在 3.3～3.5V 之间。过放电会导致电芯性能、电池功能的丧失
- If manual soldering is used, please pay attention to the following to ensure the function of the electric cell: a) the temperature control of the soldering iron can prevent static electricity; b) the temperature of the soldering iron shall not exceed 350℃; c) the soldering time shall not exceed 3s; d) no more than 5 times of soldering; e) secondary welding must be carried out after the polar ear is cooled; f) direct heating of the cell is prohibited. Above 100℃ will cause cell damage. /如使用手工锡焊，须注意以下事项，以保证电芯的功能：a) 烙铁的温度可控能防静电；b) 烙铁温度不能超过 350℃；c) 锡焊时间不能超过 3s；d) 锡焊次数不能超过 5 次；e) 必须在极耳冷却后再进行二次焊接；f) 禁止直接加热电芯，高于 100℃会导致电芯损坏

Prohibitions/禁止

- Do not use different charger. /禁止使用非标配充电器。
- Do not charge with more than maximum charge rate. /禁止超出最大充电倍率充电。
- Do not disassemble or reconstruct the battery. 禁止拆解和重组电池。
- Do not throw or cause impact.禁止丢抛电池或其他可能引起撞击的动作。
- Do not pierce a hole in the battery with sharp things. (such as nail, knife, pencil, drill) /禁止尖锐物插入电池

- Do not use with other batteries or cells. /禁止和其他电池混用。
- Do not solder on battery directly. /禁止直接在电池上面上锡。
- Do not press the battery with overload in manufacturing process. /禁止在制程中过度挤压。
- Do not use old and new cells together for packing. /禁止新老电芯在同一个电池模组内混搭使用。
- Do not expose the battery to high heat. (such as fire) /禁止将电池暴露在高温或过热处,例如火中。
- Do not put the battery into a microwave or high-pressure container. /禁止将电池放入微波或高压容器内。
- Do not use the battery reversed. /禁止反转。
- Do not connect positive (+) and negative (-) with conductive materials (such as metal, wire). /禁止正负极直接短接（如使用金属、电线等）
- Do not allow the battery to be immersed in or wet with water or sea-water. /不允许将电池浸入水中和被水淋。
- Do not deform the battery cell (e.g. bending the terrace area or the pouch sealing area) without written agreement with the battery manufacturer. /在没有征得制造商书面同意前，禁止将电池弄变形(例如弯折易于形变的台阶或封装区域)。

Others/其他

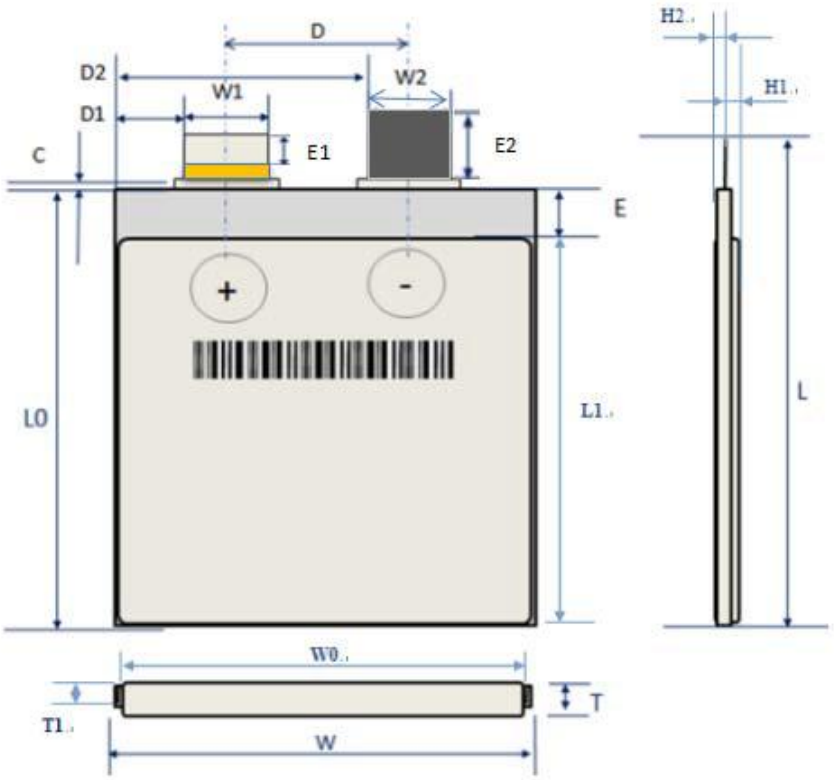
Any matters that this specification does not cover should be conferred between the customer and Li-Fun. /本规格书中之未尽事宜需客户与敝司共同确认。

Disclaimer/免责申明

- LF reserves the right to modify the specifications and performance parameters of the product. The buyer needs to confirm the latest status of the LF in advance before ordering the LF product.If the customer has different opinions on the appearance of the cell, both parties shall solve it through friendly negotiation./立方保留对产品的规格及性能参数修改的权利。买方在订购立方产品前，需要与立方提前确认产品的最新状态。若客户对电芯外观有不同意见，双方友好协商解决。
- If the product demand company is not used according to the regulations in the specification, the social influence is caused, and the reputation of the LF is influenced, the LF will be investigated for the responsibility of the requirement unit. According to the degree of influence on the LF, the product demand company needs to provide compensation for the LF. /如果由于产品需要单位不按本说明书中的规定进行使用，造成社会性影响，并对立方的声誉造成影响的，立方将会追究需求单位的责任。根据对立方造成的影响程度，产品需求单位需向立方提供赔偿。

6. Drawing /图纸

(all unit in mm, not in scale/单位为毫米，未按比例绘制)



Items	Description	Dimension
T	Thickness for shipping-with mylar and side tape(mm)/出货厚度-含麦拉膜和侧胶厚度	11.4±0.8
W	Width(mm)/宽度	141.0±2.0
W0	Width without folded edge(mm)/宽度-不含折边	139.0±1.0
L0	Length(mm)-Cell body/电芯主体长度	242.0±2.0
L	Length(mm)-with Tab Lead/电芯长度-含极耳长度	270.0±5.0
L1	Length without top sealing(mm)/电芯长度-不含顶封边宽	223.0±2.0
W1&W2	Tab width(mm)/极耳宽度	30.0±2.0
E	Top sealing width (mm)/顶封封印宽度	18.0±2.0
E1	Length(mm)-Cathode Tab/正极耳长度	17.5±1.0
E2	Length(mm)-Anode Tab/负极耳长度	30.0±1.0
C	Sealant outside length(mm)/CPP 胶外露长度	0.5~2.5
D1	+TAB to left distance (mm)/正极耳左边距	10.0±2.0
D	+/-TAB Center Distance(mm)/正负极耳中心距	90.0±2.0
D2	-Tab to left distance(mm)/负极耳左边距	100.0±3.0
H1	Tab to face height(mm)/极耳距电芯表面高度	5.5±0.8
H2	Tab to back height(mm)/极耳距电芯背面高度	5.5±0.8
T1	Height of folded edge(mm)/折边高度	3.5±1.0

7. Grouping conditions 配组条件 16S1P

Capacity of shipment 电芯出货容量~27%SOC
Open-circuit voltage 开路电压：3.245-3.310V

	Capacity 0.2C to 2.5V, @ 30±2℃下容量(mAh)	Static voltage 搁置电压(mV)	Static resistance 搁置内阻(mΩ)
Standard of Sorting 筛选标准	C≥38000	/	≤1.2
Standard of grouping 配组标准	555	15	0.4

Customer Inquiry/客户调查

Model/型号: **C5E2240-04**

The customer is requested to write down your information and contact Li-Fun in advance, When the customer needs applications or operating conditions other than those described in this document. Li-Fun could design and build such products according to your special request.

尊敬的客户，如您需要在此规格书描述之外的范围内应用产品，可将需求信息反馈给敝司。立方将根据您的特殊要求设计和制造相关产品。

No.	Special Request /要求	Criteria /条件
1		
2		
3		
4		
5		

Company Name/公司名称：_____ Signature/签名：_____Date/日期：_____