

M2T**深圳市佳源通达科技有限公司**
SHENZHEN JIAYUANTONGDA TECHNOLOGY CO.,LTD

Tape: Y6601A-01

REV: A/0

Date: 2025-03-05

规格承认书

APPROVAL SHEET

PRODUCT NAME 品名: 手机锂离子电池

CUSTOMER 客户名: 云天智能通讯

MODEL 产品型号: Y6601A (S0IHero24)

SPECIFICATION 产品规格: 803464-2P/5250mAh-3.8V

MATERIAL NUMBER 料号: _____

Date (日期): 2025-03-05

CUSTOMER'S APPROVAL SIGNATURE (客户认可栏)	
constuct confirming 结构确认	Electronics confirming 电子确认

Remark(备注): _____

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1、适用范围:

Scope : This specification has provided the following items for Li-ion battery with 803464-2P/5300mAh-3.8V cell by jiayuantongda test item\inspection rule\safety warning\marking and packing\transporting and storing.

本规格书规定了佳源通达公司 使用 803464-2P/5300mAh-3.8V 电芯所生产的锂离子电池的技术要求、测试项目、检测规则、安全警示、标志包装、运输及储存等。

2、Reference to standards 引用标准: GB\T18287-2013 GB31241—2022 GB191-1990

3、basic characteristics of product: 产品基本特性

NO. 序号	ITEM 名称	TEST CONDITION 条件		PARAMETER 参数	UNIT 单位
1	Rated Capacity 额定容量	0.2C ₅ A CC\CV		5250	mAh
	Typical Capacity 典型容量	0.2C ₅ A CC\CV		5250	mAh
2	nominal voltage 标称电压	3.8V			V
3	standard charging CC\CV 标准充电 CC\CV 方式	Constant current 恒流值	0.2C ₅ A standard charging 标准充电 0.2C ₅ A	1060	mA
			1.0C ₅ A rapid charging 快速充电 1.0C ₅ A	5250	mA
		constant voltage 恒压值		4.35	V
4	discharging current standard value 放电电流标准值	0.2C ₅ A		1060	mA
5	discharging current MAX value 放电电流最大值	0.5C ₅ A		2625	mA
6	discharging cut-off voltage 放电截止电压	/		3.0	V
7	Over charging protection voltage 过充保护电压	/		4.40±0.025	V
8	Over discharging detection voltage 过放检测电压	/		2.80±0.05	V
9	Over load protection current 过载保护电流	/		6.0~15.0	A
10	envirment temperature for	0.2C		0~45	°C

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	standard charging 标准充电环境温度	1.0C	15~45	°C
11	Max continuous discharge current 最大持续充电电流	≤0.5C恒流充电 ≤4.1V充电电压 ≤0.5C constant current charging ≤4.1 Vcharging voltage	45~50	°C
12	envirment temperature for standard discharging 标准放电环境温度	0.2C	-20~60	°C
		0.5C	15~60	°C
13	Max continuous discharge current 最大放电持续电流	0.5C	15~60°C (Long term use would cause performance 长期使用会导致电芯性能衰减)	
14	Impedance 内阻	using AC1KHZ test 使用 AC 1KHZ 检测方法	$R_s \leq 120$	mΩ
15	storing temperature 贮存温度	1 month ≤1 个月	-20~45	°C
		3 months ≤3 个月	-20~35	°C
		1year ≤1 年	10~25	°C
	Storing humidity 贮存湿度	The cell shall be charged periodically to maintain voltage between 3.7V and 3.9V. 电池应该定期充电使电压保持在 3.7V 到 3.9V 之间	45%~90%	RH
16	Dimension 电池关键尺寸	length 长	67.0(Max)	mm
		width 宽	34.0(Max)	mm
		thickness 厚	17.0(Max)	mm

4、characteristics: 特性

4.1 testing environment 性能参数测试环境

4.1.1 test conditions: 测试条件

the test should be implemented in the condition of standard atmospheric pressure unless otherwise specified:

temperature: 10°C~35°C;

relative humidity: 45%~85%;

atmospheric pressure: 86KP~106KP。

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除非另有规定，本规范中个项试验应在试验的标准大气压条件下进行：

温度：10℃~35℃；

相对湿度：45%~85%；

大气压强：86KP~106KP。

4.1.2 measuring instrument requirements: 测量仪表与设备的要求：

instrument for measuring voltage: accuracy must be more than 0.5 gade, impedance must be more than 10K Ω /V.

instrument for measuring current: accuracy must be more than 0.5 gade。

instrument for measuring time: accuracy must be more than ±0.1%。

instrument for measuring temperature: accuracy must be more than ±0.5℃

The current of the constant flow source must be constant and adjusted, and the variation of the current must be within ±1% when charging or discharging.

The voltage of the constant voltage source must be adjusted, and the variation of the voltage must be within ±0.5%。

instrument for measuring dimension: accuracy must be more than 0.02mm, measuring rang is 200mm.

instrument for measuring weigth: accuracy must be more than 0.1g, measuring rang is 1.5Kg

测量电压的仪表准确度应不低于 0.5 级，内阻应不小于 10K Ω /V。

测量电流的仪表准确度应不低于 0.5 级。

测量时间的仪表准确度应不低于±0.1%。

测量温度的仪表准确度应不低于±0.5℃。

恒流源的电流恒定可调，在充电或放电过程中，其电流变化应在±1% 范围内。

恒压源的电压可调，其电压变化范围为±0.5%。

尺寸测量仪的准确度不低于 0.02mm，量程为 200mm。

称量质量的仪器感量不低于 0.1g，秤量为 1.5Kg。

4.2 electronics performance parameter 电性能参数

序号	测试方案	测试方式	标准
1	Discharge Performance (0.2C ₅ A) 0.2C ₅ A 放电性能	After full charging 完全充电后	The discharging time is not less than 5h. 放电时间不能低于 5h。
2	Internallmpedance 电池内阻	成品内阻 finshed product	≤120mΩ。
3	出货电压 OQC voltage	出货电压 OQC voltage	≥3.80~4.05V。
4	电池容量 capacity	完全充电后，用 0.2C ₅ A 放电的终止电压的容量。A cell has been charged in standard methed and discharged at a constant current of 0.2C ₅ A to the cut-off voltage	≥5300mAh。

5	ESD 静电实验	Contact discharge 接触式放电试验	All function of the battery is normal. 在正常条件下, 电池的各项功能正常。	After being charged with 0.5C, discharging the battery in contacting method with $\pm 4\text{KV}$ to positive and negative respectively 10 times in the condition of normal temperature and pressure, relative humidity 30% ~ 60%. 在常温常压下, 相对湿度 30%~60%条件下, 电池按照 0.5C 充电结束后, 对电池进行接触式放电, 采用 $\pm 4\text{KV}$ 接触式放电标准测试。对电池的正, 负极分别进行接触式放电, 放电次数为 10 次
		Air discharge 空气放电试验	All function of the battery is normal. 在正常条件下, 电池的各项功能正常。	After Contact discharge ending, discharging the battery in uncontacting method with $\pm 8\text{KV}$ to the gap of the battery 10 times . 接触式放电结束后, 对电池进行空气放电, 采用 $\pm 8\text{KV}$ 空气放电标准测试。对电池缝隙进行空气放电, 放电次数为 10 次。
6	Self discharge test 自放电测试	Voltage reduction should be less than 0.04V 测试后要求电压下降不能超过 0.04V	A cell is fully charged in constant current of 0.2C _{5A} , and stored in an ambient temperature of $20^\circ\text{C} \pm 5^\circ\text{C}$ for 28 days, then test the voltage . 常温下, 电池按照 0.2C _{5A} 充电结束后, 搁置 2h, 测量并记录电池的开路电压; 在常温搁置 28 天, 测试电池的开路电压。	
7	Cycle Life 循环寿命	cycles ≥ 300 times, Capacity $\geq 80\%$ 0.2C _{5A} 放电循环 300 次, 容量 $\geq 80\%$	Battery cycle test should be under the conditions of $20^\circ\text{C} \pm 5^\circ\text{C}$, to 0.2c _{5a} charge, when the battery terminal voltage reaches the charging limit voltage, change to constant voltage charging, until the charging current is less than or equal to 32.0mA, stop charging, use 5min, then to 0.2c _{5a} current discharge to the termination voltage, after the end of the discharge, Use 5min, and then proceed to the next cycle, until the second discharge capacity of less than 80%, the end of life is considered. 电池循环试验应在 $20^\circ\text{C} \pm 5^\circ\text{C}$ 的条件下, 以 0.2C _{5A} 充电, 当电池端电压达到充电限制电压时, 改为恒压充电, 直到充电电流小于或等于 32.0mA, 停止充电, 搁置 5min, 然后以 0.2C _{5A} 电流放电至终止电压, 放电结束后, 搁置 5min, 再进行下一个循环, 直至连续两次放电容量小于 80%, 则认为寿命终止。	
8	Storing 贮存	the discharge time at 0.2C _{5A} not be less than 4h after storing 12 months. 电池贮存 12 个月, 经完全充电后, 0.2C _{5A} 放电时间不小于 4h。	The period of battery from production to testing should be less than 3 months. The sample battery should be charged in Standard Charge Method to a capacity level of 40%~50%, and stored in an ambient temperature of $20^\circ\text{C} \pm 5^\circ\text{C}$, relative humidity of 45%~85% 进行贮存试验的电池应选自生产日期到试验日期不足 3 个月的电池, 电池贮存前应按完全充电制式给电池充电至 40%~50% 的容量, 然后在环境温度	

20°C ± 5°C, 相对湿度 45%~85%的环境中贮存, 贮存期满后, 电池按完全充放电制式进行充放电。

4.3 mechanical characteristics 机械性能

NO. 序号	INSPECTION ITEM 检验项目	STANDARD 标准	TEST METHOD 测试方法
1	Vibration test 振动	<p>1. no scratch, no leakage, no fume, no explosion;</p> <p>2. the voltage is min 3.6V.</p> <p>电池外观应无明显变形、锈蚀、冒烟或爆炸。电池电压应不低于 3.6V。</p>	<p>A cell is charged in Standard Charge Method, then installed onto the vibration desk with clamps. Equipment parameters of frequency and amplitude are as follows(the frequency is to be varied at the rate of 1Hz/min between 10 Hz—55 Hz, and repeat vibration for 30min .The battery is to be tested in three mutually perpendicular directions): Frequency:10 Hz—55 Hz amplitude:1mm.</p> <p>完全充电后,以 0.38mm 振幅,10Hz~55Hz 的频率作谐振,将电池安装在振动台上,设置好 X.Y.Z 三个方向上从 10Hz~55Hz 循环扫频振动 30min,扫频速率为 1oct/min。</p>
2	Impact test 碰撞	<p>no deformation, no fume, no explosion; the voltage should be more than 3.6V</p> <p>电池外观应无明显变形、锈蚀、冒烟或爆炸。电池电压应不低于 3.6V。</p>	<p>installed the battery onto the vibration desk with clamps. Equipment parameters of frequency \ time \times are as follows :acceleration: 100m/s²; frequency: 40~80times/min;pulse duration: 16ms impact times: 1000 ± 10</p> <p>振动试验结束后,将电池平均按 X.Y.Z 三个互相垂直轴向上,设置脉冲峰值加速度为 100m/s²,每分钟碰撞次数 40~80,脉冲持续时间 16ms,碰撞次数 1000 ± 10。</p>
3	Drop test 自由跌落	<p>The discharging time is not less than 51min. No deformation, no explosion, no leakage, no fume.</p> <p>1.电池的放电时间≥51min 2..电池应无变形、锈蚀、漏液、冒烟等不良</p>	<p>A battery charged in standard method is dropped from a height of 1000mm to concrete ground. the battery shall be dropped 12 times with 6 directions each 2 times by positive and negative of `X Y Z. After that, the battery is discharged to cut-off voltage at 1C₅A, then check its appearance.</p> <p>碰撞试验结束后,将样品电池从 1000mm 高处自由跌落于水泥地面上,从 X.Y.Z 正负六个方向每个方向自由跌落 2 次,共 12 次。实验结束后,以 1C₅A 进行充放电循环,充放电循环次数应不多于 3 次。</p>
4	Impact test 重物冲击	<p>No fire, no explosion</p> <p>不起火,不爆炸,电池允许变形。</p>	<p>A cell is to be placed on the impact flat. A 9.1kg weight is to be dropped from a height of 1m onto the cell, the distortion is allowed.</p>

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			<p>电池置于冲击台上，将 9.1kg 重锤自 1m 高度自由下落冲击已固定在夹具中的电池（电池的面积最大的面应与台面垂直）。</p>
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4.4 safety characteristics 安全特性

NO. 序号	INSPECTIO N ITEM 检验项目	STANDARD 标准	TEST METHOD 测试方法
1	Short-circuit 短路保护性能	<p>no changes on apperance(leak, swell, fume, etc) the voltage is not less than 3.7 V after Instantaneous being charged.</p> <p>电池外观应无任何可视性现象（漏液、起鼓、冒烟等）瞬时充电后电池电压不小于 3.7V,</p>	<p>After full charging ,short circuit be done with 0.1 Ω, then disconnect it and then instantly charge it for 5S.</p> <p>电池完全充电后，将正负极用 0.1 Ω 电阻器短路；将正负极断开后，电池以 1C₅ A 电流瞬时充电 5s</p>
2	Overcharge protection performance 过充保护性能	<p>no changes on apperance(leak, swell, fume, etc) 电池外观应无任何可视性现象（漏液、起鼓、冒烟等）</p>	<p>after full charging,load the battery with constand current and voltage source 8 hours ,the parameters as follows: voltage : double nominal voltage of the battery current: 2C₅ A</p> <p>电池完全充电后，用恒流恒压源持续给电池加载 8h，电压设定为 4.6V，电流设定为 2C₅A。</p>
3	Discharge pr otection perf ormance 过放电 保护性能	<p>no changes on apperance(leak, swell, fume, etc) 电池外观应无任何可视性现象（漏液、起鼓、冒烟等）</p>	<p>in the temperature of 20 \pm 5 $^{\circ}$C , discharged the battery to cut-off voltage at a constant current of 0.2C₅A, then discharge by conne cting the load resistant with 30 Ω . 对于充满电的电池，常温下使用 0.2C₅ A 电流放电至终止电压后，用 30 Ω 的负载继续放电，加载 24h。</p>
4	Short-circu it test 短路	<p>No fire, no explosion 不 起 火 ， 不 爆 炸 。</p>	<p>A cell is to be short-circuit by connecting the positive and negative terminals of the cell with copper wire having a maximum resistance load of 50mΩ. Monitor its temperature while testing, the cell is to be discharged until the cell case temperature has returned to be 10$^{\circ}$C less than peak temperature.本项试验应在拆除电池外保护线路板后进行，将接有一热电偶的电池置于通风橱中，短路其正负极（线路板电阻不大于 50m Ω），监视温度变化，当电池温度下降到比峰值低约 10$^{\circ}$C 时，试验结束。</p>

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4.5 battery reliability 电池可靠性

NO. 序号	INSPECTION ITEM 检验项目	STANDARD 标准	TEST METHOD 测试方法
1	High Temperature Performance 高温性能	1. the discharge time is not less than 51min; 2. no distortion, no rupture. 电池在 55±2℃, 用 1C ₅ A 放电时间不小于 51min, 电池外观无变形无漏液 无爆裂。	After standard charging, the cell shall be placed at 55 ± 2 °C for 2h, and the time to discharge at 0.2C constant current to 3.0V under this condition shall be recorded 电芯标准充电后在 55±2℃环境下搁置 2h, 记录在此条件下以 0.2C 恒流放电至 3.0V 的时间
2	Low Temperature Performance 低温性能	1. the discharge time is not less than 3h; 2. no distortion, no rupture. 电池在-10±2℃, 用 0.2C ₅ A 放电时间不小于 3h, 电池外观无变形无漏液 无爆裂。	A cell is charged in Standard Charge Method, and stored in an ambient temperature of -10±2℃ for 16h, then discharged to cut-off voltage at a constant current of 0.2C ₅ A. After that, fetch out the cell and place it in an ambient temperature of 20±5℃ for 2h, then check its appearance. 电芯标准充电后在-10℃环境下搁置 16h, 用 0.2C ₅ A 放电至截止电压, 记录电芯放电时间。
3	Constant Temperature and Humidity 恒定湿热性能	1. no distortion, no rust, no fume, no explosion ; 2. the discharge time is not less than 36 min. 电池外观应无明显变形、锈蚀、冒烟或爆炸。以 1C ₅ A 放电, 放电时间不低于 36min。	A cell is charged in Standard Charge Method, and stored in an ambient temperature of 40±2℃ (93±2%RH) for 48h, then placed it in a room temperature for 2h, check its appearance, after that, discharged to cut-off voltage at a constant current of 1C ₅ A.. 完全充电后, 在 40±2℃, 相对湿度为 93±2%的恒温恒湿度条件下搁置 48h 后, 再取出放在 20±5℃ 条件下搁置 2h, 再以 1C ₅ A 放电。

5 PCBA parameter 保护线参数

5.1 PCBA parameter 保护线路板参数

项目 item	最小值 Min.	典型值 Type value	最大值 Max.	单位 Unit
过充保护电压 Over charge detection voltage	4.375	4.40	4.425	V
过充保护恢复电压 Over charge release voltage	4.15	4.20	4.25	V
过放保护电压 Over discharge detection voltage	2.75	2.80	2.85	V
过放保护恢复电压 Over discharge release voltage	2.9	3.0	3.1	V
放电过流保护电流 Discharging overcurrent detection	6	9	15	A

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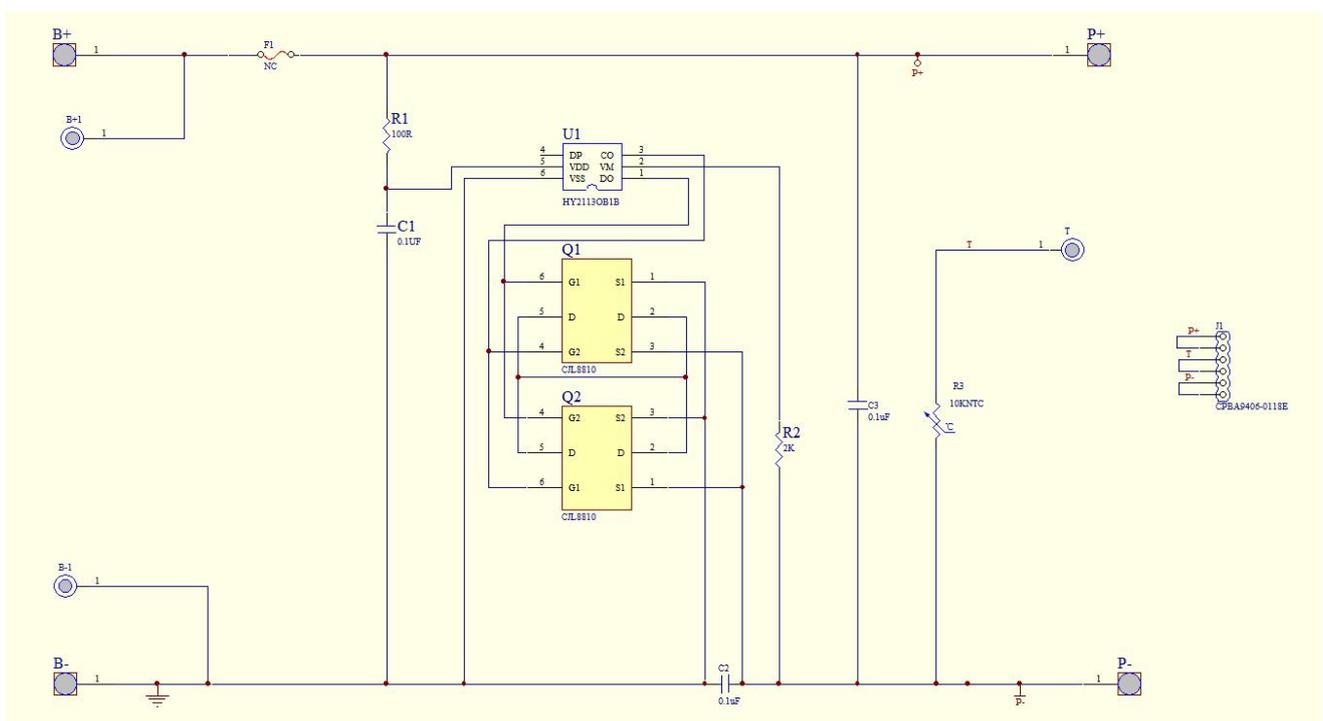
current				
过充保护延迟时间 Overcharge detection delay time	1000	1300	1600	ms
过放保护延迟时间 Over discharge detection delay time	115	145	175	mS
放电过流保护延迟时间 Discharging overcurrent detection delay time	9	12	15	ms
短路保护延迟时间 Short detection delay time	200	300	400	us
正常状态下静态电流 Current consumption (Operation)		3.0	6.0	uA
过放状态下静态电流 Current consumption (Power down)			0.1	uA
导通内阻(B-, P-) Impedance (B-, P-)	20	40	60	mΩ
最大持续放电电流 Max continuous discharge current			5	A
工作温度 Operating temperature	-20		+80	°C
推荐存储条件 Recommendatory storage condition	Temperature range: -5~+35°C Humidity: 0%~75%RH			
0V 电池充电功能 0V battery charge function	允许 Available			

5.2 metal parts 五金件

NO. 序号	INSPECTION ITEM 检验项目	TEST METHOD 测试条件和方法	STANDARD 要求
1	overall dimensions 外型尺寸	Measureing key dimensions of the key location 测量关键部位的关键尺寸	Corrseponding drawing or sample 符合设计图纸或样品的尺寸要求

2	Appearance 外观	<p>1、Distance: 200~300mm between eyes and product 距离：人眼与被测物表面的距离为 200~300mm。</p> <p>2、Time: less than 12s 时间：每片检查时间不超过 12s。</p> <p>3、Location: 45° between viewing face and desk;and turning 15° from up to down and left to right. 位置：检视面与桌面成 45°；上下左右转动 15°</p> <p>4、Lighting: 100W cold light daylight lamp keeps the distance of 500~550mm from the surface of product. 照明：100W 冷光白荧光灯，光源距被测物表面 500~550mm，（照度达 500~550Lux）。</p>	Surface should bright and clean, no Aberration\colour spot\scratch\rusting...表面光洁，无色差、色斑、划伤，锈蚀等现象
3	Material quality 材质	Test with plating thickness tester\chipper 用镀层厚度测试仪；切片机	1、metals terminal base material is phosphor bronze, nickel more than 2 μm, Au more than 0.03 μm. 五金端子基材使用磷青铜，镀层要求是基材为铜，镍层最少 2 μm，金层最少 0.03 μm，镀层光亮
4	Salt fog test 盐雾实验	5%NaCl solution , continues 24h, 盐雾试验，5%NaCl 溶液，持续 24h，	non-oxidation\rusting\resistant to corrosion more than 9 grade 无氧化、锈蚀。抗腐蚀 9 级以上。

5.3 electric schematic diagram 电气原理图

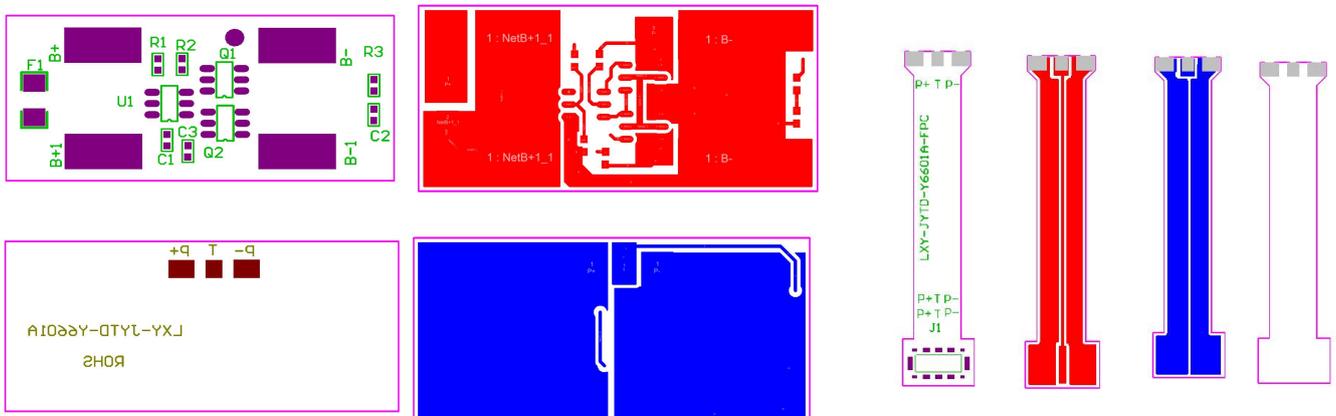


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5.4 PCB BOM 保护板元件清单

No. 序号	Coed 代码	Material Name 物料名称	Specification/Model 规格/型号	Qty 用量	Remarks 备注
1	U1	Protection IC 控制 IC	HY2113-0B1B /SOT-23-6	1pcs	宏康
2	Q1/Q2	Power MOSFET MOS 管	CJL8810/ SOT-23-6	2pcs	迪浦
3	R1	Resistor 电阻	100 Ω ±5%/0402	1pcs	
4	R2	Resistor 电阻	2K Ω ±5%/0402	1pcs	
5	R3	NTC 电阻	10K Ω ±1%/0402, B=3380	1pcs	村田
6	C1/C2/C3	Capacitor 电容	Y5V 0.1uf/+80-20%/25V /0402	3pcs	
7	F1	平镍片	2x3x0.3	1PCS	
8	J1	连接器	CPB9406-0118E/SMK	1PCS	
9	B+/B-	平镍片	6x3x0.3	4	
10	LXY-JYTD-Y6601	PCB	30*14*1.0mm	1	
11	LXY-JYTD-Y6601-FPC	FPC	34.37*7.6*0.15	1	

5.5 PCB



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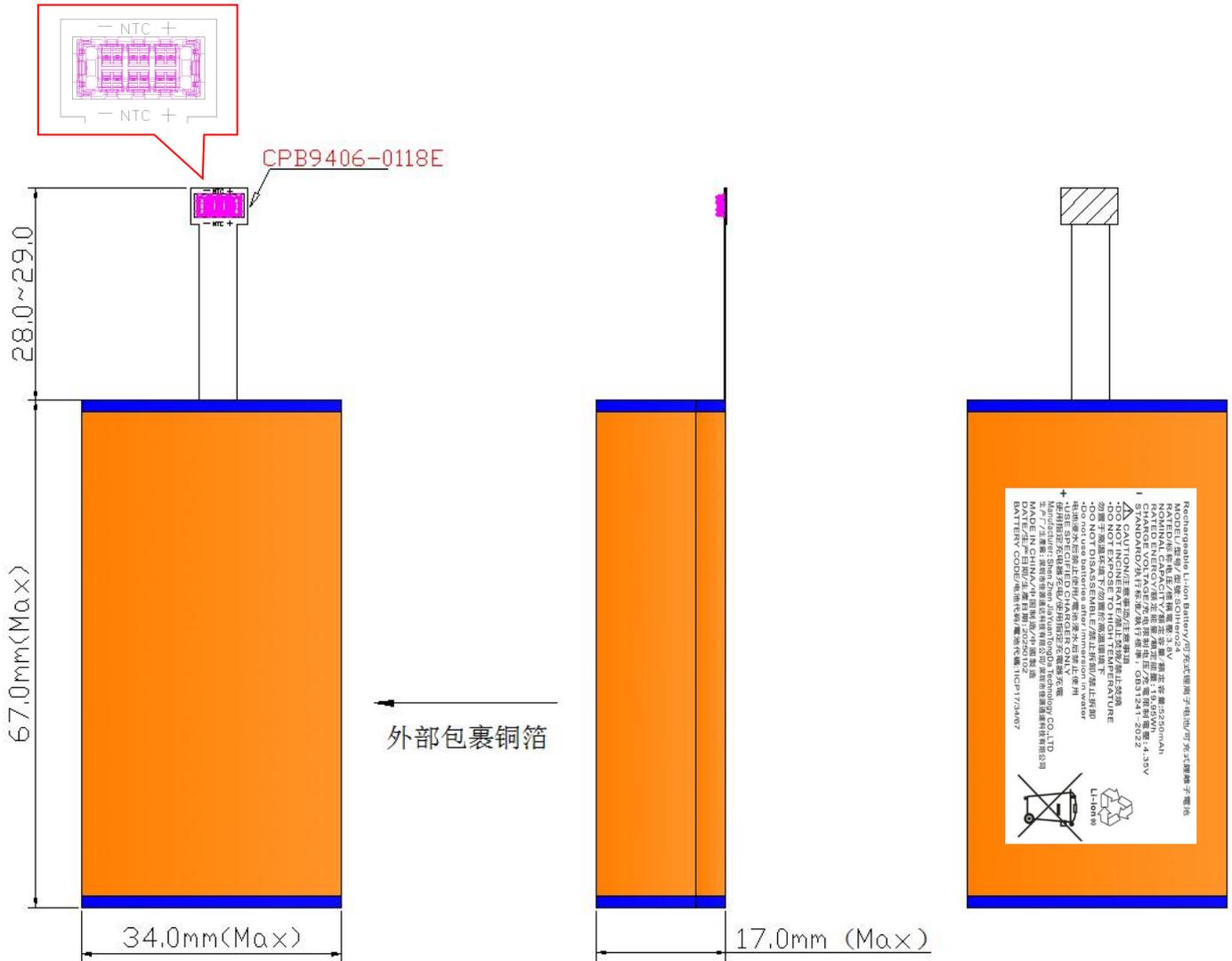
深圳市佳源通达科技有限公司 SHENZHEN JIAYUANTONGDA TECHNOLOGY CO.,LTD

Tape: Y6601A-01

REV: A/0

Date: 2025-03-05

6 End Product Size 成品尺寸图:



7. Label 标签

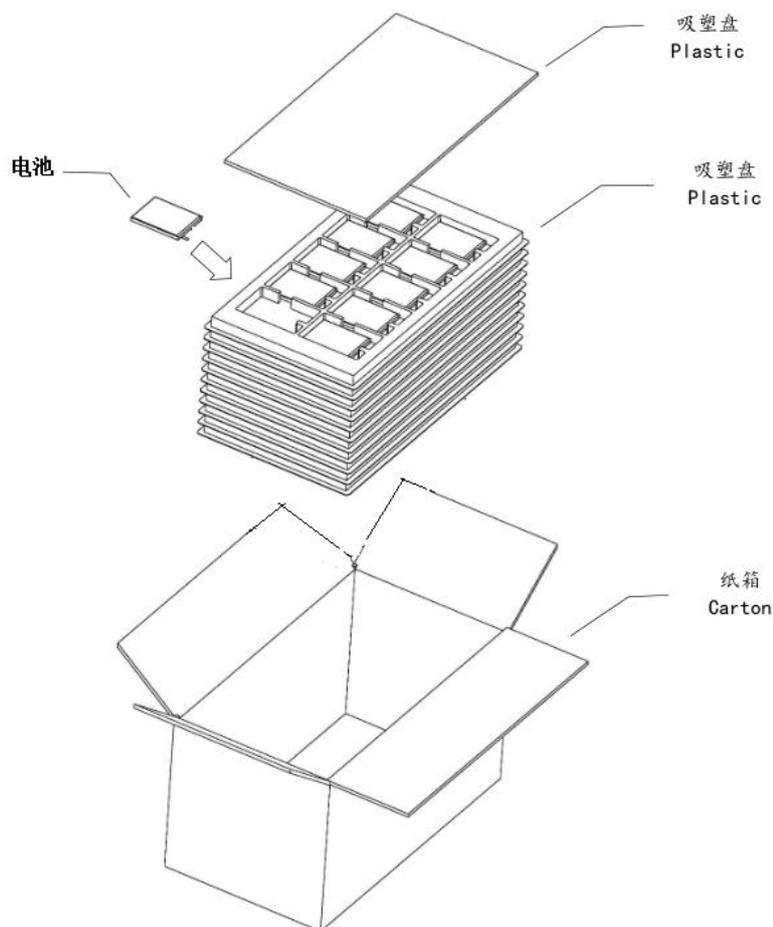
Rechargeable Li-ion Battery/可充电锂离子電池/可充电鋰離子電池
 MODEL/型号/型號: SOIHero24
 RATED/标称电压/標稱電壓: 3.8V
 NOMINAL CAPACITY/額定容量/額定容量: 5250mAh
 RATED ENERGY/額定能量/額定能量: 19.95Wh
 CHARGE VOLTAGE/充电限制电压/充電限制電壓: 4.35V
 STANDARD/执行标准/執行標準: GB31241-2022

! CAUTION/注意事项/注意事項
 • DO NOT INCINERATE/禁止焚烧/禁止焚燒
 • DO NOT EXPOSE TO HIGH TEMPERATURE
 勿置于高温环境下/勿置於高溫環境下
 • DO NOT DISASSEMBLE/禁止拆卸/禁止拆卸
 • Do not use batteries after immersion in water
 電池浸水后禁止使用/電池浸水后禁止使用

+ USE SPECIFIED CHARGER ONLY
 使用指定充电器充电/使用指定充電器充電
 Manufacturer: Shen Zhen JiaYuanTongDa Technology CO.,LTD
 生产厂/生產廠: 深圳市佳源通达科技有限公司/ 深圳市佳源通达科技有限公司
 MADE IN CHINA/中国制造/中國製造
 DATE/生产日期/生產日期: 20250102
 BATTERY CODE/電池代碼/電池代碼: 1ICP17/34/67


Li-ion 00


8. Packing diagram 包装示意图



9. transporting 运输

The battery should be transported with half voltage ,and should prevent the severe shaking\impacting\extruding\exposeding to the sun and rain. The transporting can be implemented by sea-land-air.

电池应在半荷电状态（50%充电状态）下包装成箱进行运输，在运输过程中应防止剧烈振动、冲击或挤压，防止日晒雨淋，适应于海陆空的交通运输。

10. storing 存放

The battery should be stored in the indoor with cleaning\ drying and breezing environment, and can not be contacted with corrosive material and should keep far away fireseat and heat source. 电池应储存在环境温度为-5℃至 35℃的清洁、干燥通风的室内，应避免与腐蚀性物质接触，应远离火源及热源。

11. 使用注意事项及危险警告

11.1 announcements (使用注意事项)

Do not put the battery in the place with high temperature, otherwise this maybe lead firing, reducing performance or shortening the life of battery. Do not use the battery when the static is stronger than the specification required in producing.

不要将电池放于高温处（如阳光直射或热天下汽车里），否则，会过热着火，性能降低或寿命缩短。

为确保安全，电池应安装安全装置，在静电强于制造时所要求的静电时请勿使用，否则，安全装置会失效，导致电池过热、破裂、爆炸及着火。

The battery should be used in the following conditions:

environment condition:

请在下列条件下正常使用，否则会过热，着火，性能降低或缩短寿命。

环境条件:

temperature (T 温度)	charging 充电:	10 + 45
	discharging 放电:	-10 +60℃
	keeping in 30 days	30 天内保存: 0~ +60℃
	keeping in 90 days	90 天内保存: 0~ +45℃

If children use battery, they must study instruction and operate correctively according it.

如果小孩使用电池，应指定他们按使用说明书进行使用且保证电池在任何时候都必须是正常使用。

When the electrolyte wet the clothes or skin , you should wash it with water.

若电池泄露，电解沾于皮肤或衣服上，应用水冲洗掉或用流水洗衣服，否则将会腐蚀皮肤。

Please read the instruction carefully when you install and dismount.

为了不装错电池或损耗电池，请认真阅读使用说明书进行安装与拆卸（从装置上）。

Put the battery in the dry place when the battery not be used for long time.

若是电池不长时间使用，请把电池拿出并放于干燥的地方，否则将会被腐蚀、降低性能和减少寿命。

Please clean the battery teminal using cloth when it polluted. must pay attention to discarded battery for it firing ,we must separate its positive and negtive terminal with something insulant.

若弄脏了电池终端，请在使用之前用干布擦干净，否则将导致与装置接触不良，功率不足或充电失败，必须意识到丢弃电池会导致着火，用带子绑住以隔离其正负极端。

11.2 safety warning(危险警告)

Danger 危险

To prevent battery leaking\hoting and exploding ,please obey the the following items:

为了防止电池泄漏、发热、爆炸，请遵守以下防范事项：

Do not dip the battery into the water and pay attention to against the tide.

不要将电池浸入水或海水中，注意防潮；

Do not let the battery be close to the heat source, example: fire or heater.

不要将电池接近热源，如火或发热器；

Using the given charger when charging .

在充电时，请用特定的充电器；

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Do not reverse the positive and negative.

不要颠倒电池的正负极；

Do not connect the battery with power source.

不要将电池连接在电源的出口；

Do not put the battery in the fire or the heated materials.

不要将电池放置于火里或热的物品上；

Do not short out the battery with lead;

不要将电池的正负极用导体短路；

Do not let the battery be in touch with metal lead.

不要把电池和金属导体，如项链、发夹等一起连接或存储；

Do not strike or throw the battery.

不要敲打或丢抛电池；

Do not impale the battery with needle or sharp material.

不要用针或其他锋利物刺穿电池；

Do not strike with hammer or step on the battery.

不要用锤击打或者踩在上面；

Do not connect the battery with power source.

不要直接焊接电源；

Do not disassemble or change any part of the battery.

电池内有安全装置，为了保证其固有的安全功能，请不要将电池分解或改变任何的部分；

Do not charge the battery near the fire or heat environment.

不要在接近火源或在酷热的环境中充电。

Warning 警告

Do not put the battery in the microwave oven or cabinet with pressure.不要将电池放入微波炉或压力柜子里；

Do not connect the battery with the other that is different in capacity and brand, stop using and take out the battery from the device or the charger when you seeing any abnormal appearance,example: scenting\heating\tuning colour\deformming.....

不要将电池与其他化学电池（像干电池）或不同容量、牌子的电池合用，若电池发出气味、发热、变色、变形或者在使用充电、存储过程中，出现任何的不正常请立即从装置或充电器取出，停止使用；

Do not continue to charge the battery when it can be charged within appointing time.

指定充电时间内若不能再充电请不要继续充电；

Do not put the battery near the children who can catch it.

电池放于小孩子不能触摸的地方，若小孩咽下电池，请立即就医；

Rapidly leave the fire seat when the battery leaked or scented.

若电池泄露或电解放出怪味之气体，请速离火源，否则泄露解质会着火，电池将会着火；

Wash your eyes and then see a doctor when the electrolyte entered your eyes.

若电池泄露或电解后进入眼睛，切勿揉眼睛，应用清水冲洗眼睛后就医，否则将致眼疾。