



锂离子聚合物电池规格书

Li-ion Polymer Battery Specification

581013-50mAh

编号: PS-JS-YD6078

版本: A0

Li-ion Polymer Battery Specification

锂离子聚合物电池规格书

Model/型号: 581013/50mAh/3.7V

Prepared by 编制	Checked by 审核	Approved by 批准

Customer Name 客户名称	
Customer Approval 客户确认/盖章	
Date/日期	

Note (注意):

Kindly please sign specification back to us, if the sample has been approved.

如果样品已确认, 请回签规格书给我司。

Kindly please contact us as soon as possible if the sample has not been approved. Thanks!

如果样品未确认, 请尽快与我司联系, 谢谢!

湖南亿等新能源有限公司 Hunan Yideng New Energy Co., Ltd.

湖南省郴州市安仁县永乐江镇新安村工业园区内

Xinan Village, Industrial Park, Yonglejiang Town, Anren County, Chenzhou City, Hunan Province.

广东亿等新能源有限公司 Guangdong Yideng New Energy Co., Ltd.

广东省东莞市石排镇盘岭大地路 15 号

No.15, Panling Dadi Road, Shipai Town, Dongguan City, Guangdong Prov.,CN.

TEL: 86-735-5223906 0769-85675580

FAX: 86-735-5223906 0769-85675580

Http://www.yidengny.com



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AMENDMENT RECORDS

修改记录

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1. Scope/适用范围

This specification describes the performance, testing method, warning and caution of the lithium-ion rechargeable battery.

This standard applies to the polymer lithium ion battery in Hunan Yideng New Energy Co., Ltd.

This standard applies to the polymer lithium ion battery in Guangdong Yideng New Energy Co., Ltd.

本标准描述了锂离子电池的性能、测试方法及注意事项。

本标准适用于湖南亿等新能源有限公司生产的聚合物锂离子电池。

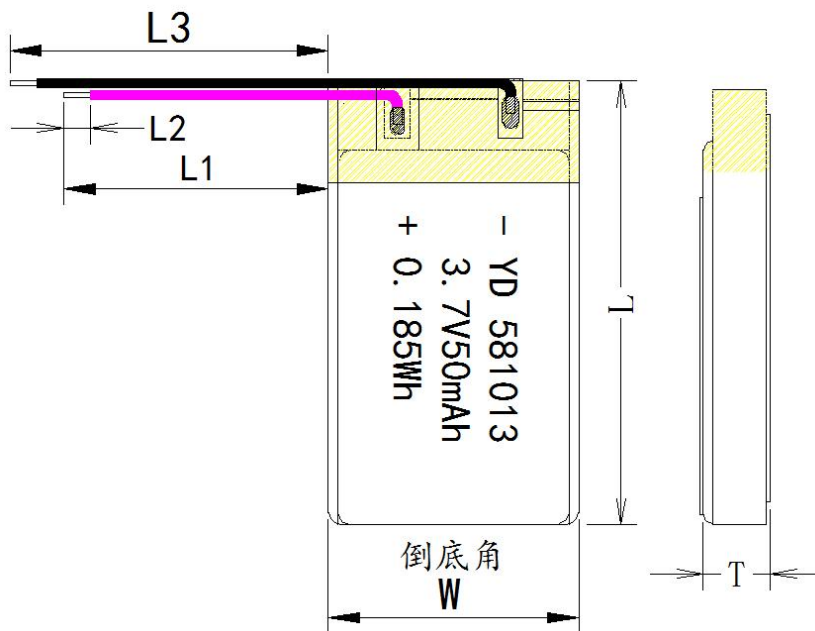
本标准适用于广东亿等新能源有限公司生产的聚合物锂离子电池。

2. Product Configuration/产品配置

No./序号	Item/项目	SPEC/规格	Remark/备注
1	Li-ion Polymer Cell 锂离子聚合物电芯	YD 581013-50 mAh	/
2	Wire/导线	UL10064-32#AWG 红黑	/

3. Product Dimension/产品尺寸

pack Drawing/成品图



厚度 T	宽度 W	长度 L	L1 红线外露	L3 黑线外露	线径 ϕ	L2 剥线长度	其它
Max:6.0	Max:10.3	Max:15.0	12 ⁺² ₋₂	14 ⁺² ₋₂	0.38	1.5	左出线

UNIT 单位: mm



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4. Battery pack specifications/电池组规格

Table 1 (表 1):

No./序号	Items/项目	Rated Performance/额定性能	Remarks/备注
1	Rated Capacity 额定容量	50 mAh	Discharge at 0.2C(23±2°C) after standard charge fully.按0.2C(23±2°C)标准完全放电。
2	Nominal Voltage 标称电压	3.7 V	
3	Limited charging voltage 充电限制电压	4.2 V	
4	Upper limited charging voltage 充电上限电压	4.25 V	1、No fire/不起火 2、NO explosion/不爆炸 3、No leakage /不泄露 4、NO hot/不过热
5	End of discharge voltage 放电终止电压	3.0 V	
6	Discharge cut-off voltage 放电截止电压	2.3 V	1、No fire/不起火 2、NO explosion/不爆炸 3、No leakage /不泄露 4、NO hot/不过热
7	Nominal energy 额定能量	0.185 Wh	
8	Shipping voltage 出货电压	3.85 ~ 4.05 V	
9	AC Impedance 电池阻抗	≤ 450 mΩ (初始阻抗/Initial impedance)	(25±5°C 3.7-4.2V AC 1 KHz measured)
10	Recommendation charging current 推荐充电电流	0.2 C CC/CV→0.02 C cutoff	Charge time/充电时间: Approx 6.0 h.
11	Recommendation discharging current 推荐放电电流	0.2 C CC→3.0 V cutoff	Discharge time/放电时间: ≥ 5.0 h
12	Maximum charging current 最大充电电流	1 C CC/CV →0.02 C cutoff	Charge time/充电时间: Approx 2.0 h.



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13	Maximum discharging current 最大放电电流	1 C CC→3.0 V cutoff	
14	Operation Temperature Range 工作温度范围	Lower limited charging temperature/下限充电温度:0℃	
		Upper limited charging temperature/上限充电温度:50℃	
		Lower limited discharging temperature/下限放电温度: -20℃	
		Upper limited discharging temperature/上限放电温度:60℃	
15	Storage T/H Range 存储温度范围	-20 ~ +60 °C	Less than 1month/小于一个月
		-20 ~ +45 °C	Less than 3month/小于三个月
		-20 ~ +25 °C	Less than 1 year/小于一年
16	Allowable maximum surface temperature 可允许的最高表面温度	Charging/充电	$T_{max} \leq 50^{\circ}C$
		Discharging/放电	$T_{max} \leq 60^{\circ}C$
17	Product Dimension/ 产品尺寸	长度/Length: 15.0 mm (Max)	Initial dimension 初始尺寸
		宽度/Width: 10.3 mm (Max)	
		厚度/Thickness: 6.0 mm (Max)	
18	Charging program/充电程序	<p>Charge at maximum current. When the battery or pack terminal voltage reaches the charging limit voltage, charge at constant voltage until the charging current is less than or equal to 0.02 C, then stop charging.</p> <p>以推荐电流充电, 当电池或电池组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 0.02C,停止充电。</p>	
19	Discharge program/放电程序	<p>The battery or the battery pack carries on the constant current discharge with the maximum discharge current to the discharge termination voltage.</p> <p>电池或电池组以推荐放电电流进行恒流放电至放电终止电压。</p>	



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5. Product Performance/产品性能.

5.1 Standard test environment, unless otherwise required/除另有要求外, 标准测试环境

- a、 Temperature/温度: 20±5℃
- b、 Humidity Range /相对湿度: ≤75%
- c、 Pressure/气压: 86 kPa~106 kPa

5.2 General Performance 常规性能

No.	Item 项目	Test Methods and Condition 测试方法和条件	Criteria 标准	参考标准
5.2.1	Rated Capacity 额定容量	<p>In the standard test environment, the sample is fully charged according to the prescribed charging procedure, shelved for 10 min, and then discharge according to the prescribed discharge program. The capacity provided during the discharge process is the actual capacity of the sample.</p> <p>Note: When there is any objection to the capacity test result, it can be retested according to the ambient temperature of 23℃ ± 2℃.</p> <p>在标准测试环境下, 按照规定的充电程序充满电, 搁置 10 min, 再按照规定的放电程序放电, 放电时所提供的容量即为样品的实际容量。</p> <p>注: 当对容量测试结果有异议时, 可依据 23℃ ± 2℃ 的环境温度作为仲裁条件重新测试。</p>	≥300min(分钟)	GB31241-2022 4.7.3
5.2.2	Cycle Life 循环寿命	<p>In the standard test environment, fill up with the specified charging procedure for 10 min and discharge for 10 minutes and repeat the above steps until the discharge capacity is 80% of the first cycle capacity</p> <p>在标准测试环境下, 按照规定的充电程序充满电, 搁置 10 min, 再按照规定的放电程序放电; 又搁置 10 分钟, 重复以上步骤, 直到放电容量是第 1 个循环容量的 80%</p>	≥300 times(次) Thickness expansion rate ≤10% 厚度膨胀率 ≤ 10%	GB/T18287-2013 4.2.7
		<p>In the standard test environment, fill up with the specified charging procedure for 10 min and discharge for 10 minutes and repeat the above steps until the discharge capacity is 65% of the first cycle capacity</p> <p>在标准测试环境下, 按照规定的充电程序充满电, 搁置 10 min, 再按照规定的放电程序放电; 又搁置 10 分钟, 重复以上步骤, 直到放电容量是第 1 个循环容量的 65%</p>	≥500 times(次) Thickness expansion rate ≤12% 厚度膨胀率 ≤ 12%	



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5.3、Characteristic 安全性能

No.	Item 项目	Test Methods and Condition 测试方法和条件	Criteria 标准	参考标准
5.3.1	High temperature External short circuit 高温外部短路	<p>After fully charging the battery by the charging procedure, place it in a $57^{\circ}\text{C} \pm 4^{\circ}\text{C}$ environment and place the battery for another 30 mn after the surface temperature reaches $57^{\circ}\text{C} \pm 4^{\circ}\text{C}$. Then wire the battery at this ambient temperature and ensure that all external resistance is 80 m220 m2. The battery temperature change is monitored during the test and the test is terminated when one of the following two situations occurs:</p> <p>1)The cell temperature dropped to 20% below the peak temperature 2)Short connect time up to 24H</p> <p>将电池按充电程序充满电后,放置在 $57^{\circ}\text{C} \pm 4^{\circ}\text{C}$ 的环境中,待电池表面温度达到 $57^{\circ}\text{C} \pm 4^{\circ}\text{C}$ 后,再放置 30 mn。然后在此环境温度下用导线连接电池正负极端,并确保全部外部电阻为 80 m220 m2。试验过程中监测电池温度变化,当出现以下两种情形之一时,试验终止::</p> <p>1) 电芯温度降至比峰值温度低 20%; 2) 短路时间达 24H;</p>	No fire, No explosion 不起火, 不爆炸	(GB31241-2022) 6.1
5.3.2	Overcharge Test 过充电性能	<p>After the battery is fully charged according to the charging program, it is charged to 4.65V with the maximum charging current, and then the constant voltage is 4.65V. Monitor the temperature change of the battery, and when the battery keeps charged for 7H or the temperature drops below 20% of the peak, the experiment is stopped.</p> <p>将电池按充电程序充满电后, 用最大充电电流电充电至 4.65V,然后恒压 4.65V 充电,监视电池温度变化,当电池持续充电 7H 或者温度下降至低于峰值 20%时,停止实验.</p>	No fire, No explosion 不起火, 不爆炸	(GB31241-2022) 6.2
5.3.3	Heavy Collision 重物冲击	<p>After fully charging the battery according to the test method specified in 4.5.1, the battery was placed on the platform surface, and the metal rod with a diameter of 15.8 mm0.2 mm was placed horizontally on the upper surface of the battery geometric center, 1 kg0.1 kg hit the surface of the battery at 610 mm25 mm from 0.1 kg, and observed for 6 h.</p> <p>将电池按照 4.5.1 规定的试验方法充满电后,将电池置于平台表面,将直径为 15.8 mm0.2 mm 的金属棒横置在电池几何中心上表面,采用质量为 9,1 kg0.1 kg 的重物从 610 mm25 mm 的高处自由落体状态撞击放有金属棒的电池表面,并观察 6 h。</p>	No fire, No explosion 不起火, 不爆炸	(GB31241-2022) 7.7



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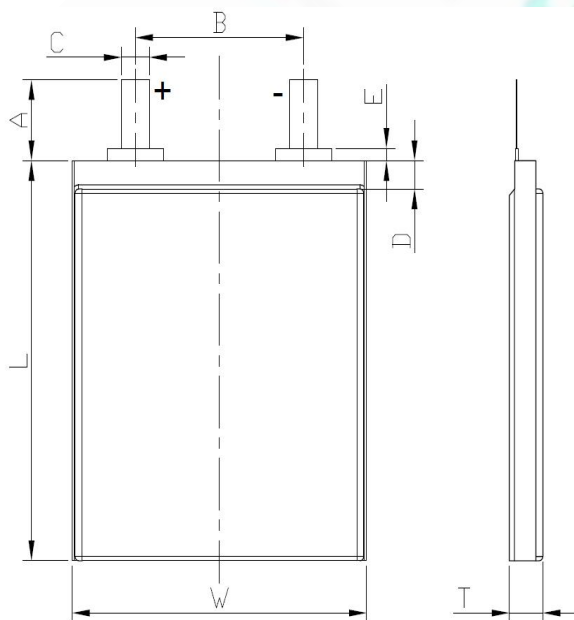
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5.3.4	Forced discharge 强制放电	<p>After discharging the battery according to the discharge program, reverse charge to the negative charging upper limit voltage with the maximum charging current, and the reverse charging time is 90 min:</p> <p>A. If the voltage reaches the negative charging upper limit, the voltage shall be kept by reducing the current for reverse charging, and the test shall be terminated after A total of 90 min;</p> <p>B. If the voltage does not reach the negative charging upper limit voltage within 90 min of reverse charging, the test shall be terminated after a total of 90 min of reverse charging;</p> <p>将电池按放电程序放完后,以最大充电电流进行反向充电至负的充电上限电压,反向充电时间共计 90 min:</p> <p>A、如果电压达到负的充电上限电压应通过减小电流保持该电压继续进行反向充电,反向充电共计 90 min 后终止试验;</p> <p>B、如果在反向充电 90 min 内,电压未达到负的充电上限电压,则反向充电共计 90 min 后终止试验;</p>	No fire, No explosion 不起火,不爆炸	(GB31241-2022) 6.3
5.3.5	Cyclone 低气压	<p>After fully charging the battery according to the charging procedure, vacuum the battery in a 20°C ± 5°C vacuum chamber to reduce the inner pressure to 11.6 kPa (simulated altitude of 15 240 m) and maintain it for 6 h.</p> <p>将电池按照充电程序充满电后,将电池放置于 20 °C ± 5 °C 的真空箱中抽真空将箱内压强降低至 11.6 kPa(模拟海拔 15 240 m),并保持 6 h。</p>	No fire, No explosion; Do not leak 不起火,不爆炸,不漏液	(GB31241-2022) 7.1
5.3.6	Drop Test 跌落测试	<p>After fully charging the battery charging program, fall onto the concrete slab at a drop height of 1 m. Each of the cylindrical and button batteries falls once for four drop tests; each of the square and flexible pack batteries falls once for six tests.</p> <p>将电池充电程序充满电后,按 1 m 的跌落高度自由落体跌落于混凝土板上。圆柱型和纽扣型电池两个端面各跌落一次,圆柱面跌落两次,共计进行四次跌落试验;方型和软包装电池每个面各跌落一次,共进行六次试验。</p>	No fire, No explosion 不起火,不爆炸	(GB31241-2022) 7.5

5.3.7	Extrusion testing 挤压测试	<p>After fully charging with the charging procedure in the standard test environment, squeeze the battery in two planes perpendicular to the plate. A squeeze pressure of 13.0 kN 0.78 kN is applied between the two plates, and the speed of squeezing the extrusion battery is 0.1 mm / s. The extrusion test is stopped once the pressure reaches the maximum or the voltage of the battery drops by a third.</p> <p>在标准测试环境下按充电程序充满电后, 将电池置于两个平面内, 垂直于极板方向进行挤压。两平板间施加 13.0 kN 0.78 kN 的挤压力, 挤压电池的速度为 0.1 mm/s。一旦压力达到最大值或电池的电压下降三分之一, 即可停止挤压试验。</p>	No fire, No explosion 不起火, 不爆炸	(GB31241-2022) 7.6
5.3.8	Vibration 振动	<p>After fully charged according to the charging procedure in the standard test environment, it was fixed on the vibration table and vibrate for 3 hours along each coordinate direction of XYZ</p> <p>Scan rate: 0.13 oct / min Vibration frequency: 7Hz~200Hz~7Hz</p> <p>Displacement amplitude value (single amplitude): 0.8mm</p> <p>在标准测试环境下按充电程序充满电后, 固定在振动台上, 然后沿 XYZ 每个坐标方向振动 3 小时</p> <p>扫频速率: 0.13oct/min 振动频率: 7Hz~200Hz~7Hz 位移幅值(单振幅): 0.8mm</p>	No explosion, no fire, no leakage 不起火、不爆炸、不漏液。	(GB31241-2022) 7.3
5.3.9	Temperature cycle 温度循环	<p>Place the fully charged battery in a controllable chamber of 20°C ± 5°C as:</p> <p>a、 Increase the temperature of the test chamber to 72°C ± 2°C and keep it for 6 h;</p> <p>b、 Reduce the temperature of the test box to -40°C ± 2°C, and keep it for 6 h;</p> <p>c、 Repeat steps a~b for 10 times;</p> <p>d、 The samples were kept at room temperature at 20°C ± 5°C for at least 6 h.</p> <p>The transition time between each two temperatures during the test shall not be greater than 30 min</p> <p>将充满电的电池放置在温度为 20°C ± 5°C 的可控温的箱体中进行如下步骤:</p> <p>a、 将试验箱温度升高为 72°C ± 2°C, 并保持 6 h;</p> <p>b、 将试验箱温度降为 -40°C ± 2°C, 并保持 6 h;</p> <p>c、 重复步骤 a~b, 共循环 10 次;</p> <p>d、 在室温 20°C ± 5°C 下至少保存 6 h。</p> <p>试验过程中每两个温度之间的转换时间不大于 30 min</p>	No explosion, no fire, no leakage 不起火、不爆炸、不漏液。	(GB31241-2022) 7.2

5.3.10	Discharge at low temperature 低温放电	At standard testing condition, after standard charging, rest the Cells 4h at $-10 \pm 2^\circ\text{C}$, then discharging at 0.2C to voltage 3.0V, recording the discharging time. 在标准测试环境下, 标准充电后, 在 $-10 \pm 2^\circ\text{C}$ 条件下贮存 4h, 然后用 0.2C 放电至 3.0V, 所记录放电时间.	$\geq 240\text{min}$ (分钟) 80%标准容量	GB/T18287-2 013 5.3.2.4
5.3.11	Discharge at high temperature 高温放电	At standard testing condition, after standard charging, rest the Cells 4h at $55 \pm 2^\circ\text{C}$, then discharging at 0.2C to voltage 3.0V, recording the discharging time. 在标准测试环境下, 标准充电后, 在 $55 \pm 2^\circ\text{C}$ 条件下贮存 4h, 然后用 0.2C 放电至 3.0V, 所记录放电时间.	$\geq 300\text{min}$ (分钟) 100%标准容量	GB/T18287-2 013 5.3.2.5

6. Cell Specification/电芯规格



Items 项目	Description 描述	Dimension and Spec 尺寸规格
T	Thickness/厚度	Max: 5.9
W	Width/宽度	Max: 10.1
L	Length (Not including the exposed sealant) / 长度 (不含外露极耳胶长度)	Max: 13.5
A	Exposed Tab Length (Including the exposed sealant) / 极耳外露长度 (含外露极耳胶长度)	$5.0 \pm 1.0\text{mm}$
B	Tab Distance/极耳中心距	$4.0 \pm 2.0\text{mm}$
C	Tab Width /极耳宽度	$1.5 \pm 0.2\text{mm}$
D	Top Sealing Width /顶封宽	$2.5 \pm 0.5\text{mm}$
E	Exposed Sealant/极耳胶外露	1.5 mm (max)
备注:	Code-printing /喷码方式: YD conventional format/按照亿等内部常规格格式喷码。	



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7. Packaging, Storage and Transportation/储存和运输

7.1 Packaging/包装:

Using YD standard packaging./采用亿等标准包装方式。

7.2 Storage/储存:

- The polymer Li-ion battery should be stored in a cool, dry and well-ventilated area, and should be far from the fire and the high temperature.
聚合物锂离子电池组应储存在阴凉、干燥、通风良好的地方。并应远离火和高温。
- The best capacity in storage is 30%-50%.
保持储容量最好是在 30%-50% 。
- The battery should be stored within the proper temperature and humidity range specified by specification.
电池应储存在产品规格书规定的温度和湿度范围内。
- If stored for more than six months or longer, the battery will be suggested to charge.
如果电池存放时间超过六个月以上或更长，建议对电池进行充电。

7.3 Transportation/运输:

- Forbidden to mix battery with other goods. /禁止将电池与其他货物混装。
- Forbidden to immerse battery into liquid such as water or soak it with liquid. /禁止将电池浸入水中或弄湿。
- Forbidden to deposit battery over 6 layers or upside-down. /禁止电池堆放超过 6 层或倒立。
- The highest temperature during battery transportation should be lower than 65°C. /电池运输过程中最高温度应低于 65°C 。

8. Use Attentions/使用注意事项

Because the polymer battery is packed in soft package, to ensure its better performance, it's very important to carefully handle the polymer battery./由于聚合物电池属于软包装，为保证电池的性能不受损害，必须小心对电池进行操作。

8.1 Attentions /注意事项

- Avoid insolation or dropping into fire. /避免暴晒或投入火中。
- Avoid shorting the battery. /避免将电池短路。
- Avoid excessive physical shock or vibration. /避免电池过度冲击或振动。
- Don't disassemble or deform the battery. /不得拆卸或扭曲电池
- Don't immerse in water. /不得浸入水中
- Don't use the battery mixed with other model or manufacturer batteries.
不要与其他型号或品牌的电池混合使用。
- Battery usage by children should be supervised. /儿童使用电池应受到监督。

8.2 Charge/充电

- Battery charge should be used appropriate charger. /电池充电必须使用专用的充电器。
- Forbidden to use modified or damaged charger. /禁止使用改装或已损坏的充电器。
- Forbidden to charge over 24 hours for battery. /禁止充电超过 24 小时。
- Charge current: can't surpass the biggest charge current specified by battery specification.
充电电流: 不能超过在规格书规定的最大充电电流。
- Charge voltage: can't surpass the highest charge voltage specified by battery specification.
充电电压: 不能超过在规格书规定的最高电压。
- Charge temperature: The battery should be charged within proper temperature range specified in specification.



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充电温度: 电池必须在规格书规定的环境温度范围内进行充电。

· Forbidden of reverse charge: The battery should be connected correctly, the polarity has to be confirmed before wiring in case of the battery is connected improperly, the battery can't be charge. Simultaneously, the reverse charge may cause damaging to the battery which may lead to degradation of battery performance and damage the battery safety, and could cause heat generation or leakage.

禁止反充: 电池应该当正确连接, 配线前就要确认极性, 万一连接不正确, 电池将不能充电。同时, 反充可能会损坏电池, 会导致电池性能下降, 破坏电池安全性, 还可能导致发热或泄漏。

8.3 Discharge/放电:

· Discharge current: can't surpass the biggest discharge current specified by battery specification.

放电电流: 不能超过在规格书规定的最大放电电流。

· Discharge temperature: The battery should be discharged within proper temperature range specified by specification.

放电温度: 电池必须在规格书规定的环境温度范围内进行放电。

8.4 Disposal/处置:

· Be aware discharged batteries may cause fire; tape the terminals to insulate them

废弃之电池应用绝缘纸包住电极, 以防起火, 爆炸。

· The disposal of battery should meet the local law.

电池的处理应当符合当地法律。

9. Warranty Period /保质期

The period of warranty is one year from the date of shipment. Within the battery idle for at least three months to charge the battery activation time, because if the idle time is too long and that the battery performance of the company is not responsible for any damage, Yideng guarantees to give a replacement in case of battery with defects proven due to manufacturing process instead of the customers abuse and misuse.

电池的保质期从出货之日算起为一年。电池闲置三个月之内至少给电池充电激活一次, 如果因为闲置时间过长而导致电池性能受损本公司概不负责, 如果证明电池的缺陷是在我们公司制造过程中造成的而不是客户滥用或错误使用造成, 本公司负责退换电池。

10. Note/注释

Any other items which are not covered in this specification shall be agreed with both parties. Take no responsibility for any accident when the cell is used underconditions outside of this specification.

Inform the customer in writing of improvement(s) regarding proper use and handling of the cell if it is deemed necessary. Energy reserves the right to revise this specification before the customer signs the datasheet. If a revision is required, notify the customer.

任何其他不包括在本规范的项目, 应由双方协商决定, 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, 概不负责。

如有必要会以书面形式告知客户有关正确操作使用电芯的改进措施。在规格书未签确前, 本公司有权对本产品规格书进行修订, 如有必要修订后将会通知客户。



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11.Appendix/附录: Capacity step/分容工步:

项目 工步	工作条件			
	时间 (min)	工作电流 (A)	截止电压 (V)	截止电流 (A)
静置	5			
恒流恒压充电		0.2 C	4.20	0.02 C
静置	5			
恒流放电		0.2 C	3.00	
静置	5			
恒流恒压充电		0.2 C	3.95	0.02 C
静置	5			
结束				



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Customer Inquiry/客户调查

Model/型号: 581013-50 mAh

The customer is requested to write down your information and contact Yideng in advance, if and when the customer needs applications or operating conditions other than those described in this document. Yideng 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。亿等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		
6		

Company Name: _____ Signature: _____ Date: _____