

	编号: ZK-MI-TRD-002
	版本: A/1
可充电锂离子电芯产品规格书	页码: 1 / 18
IFR21700 3200	生效日期: 2026-04-22

可充电锂离子电芯
产品规格书
SPECIFICATION OF PRODUCT
For Rechargeable Lithium-ion Cell

电芯型号:IFR21700 3200

Cell Model:IFR21700 3200

Designed/编制	Checked/审核	Approved/批准

贵州兆科能源有限公司

Guizhou Zhaoke Energy Co., Ltd

贵州省黔东南苗族侗族自治州凯里经济开发区鸭塘街道黔东南高新区

第一产业园 C 区 4#、5#标准厂房

Building 4 and 5, Standard Industrial Buildings, Zone C, First Industrial Park, Qiannan High-tech Zone, Yatang Street, Kai'li Economic Development Zone, Qiannan Dong Autonomous Prefecture, Guizhou Province, China

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1.范围 Scope

本产品规格书描述的是贵州兆科能源有限公司的可充电锂离子电芯，包括产品规格信息、各种性能测试条件、产品责任及注意事项。

This product specification defines there quirements of the rechargeable lithium-ion battery to besupplied to the customer by Guizhou Zhaoke Energy Co.,Ltd Including product specification test ingmethod.

如果客户需要任何其它的附加信息,建议事先与贵州兆科能源有限公司联系。

Should there beany additional information required by the customer,customer sareadvised to contact Guizhou Zhaoke Energy Co.,Ltd before selecting asolution.

2.产品描述与型号 Description and Model

2.1 产品描述:可充电锂离子电芯

2.1Description:Rechargeable Lithium-ion Cell

2.2 型号 Model:IFR21700 3200

3.定义 Definition

3.1 标准模式充电 Standard Charge

标准模式充电的定义:在 25±2℃下,将电芯以 0.5C 电流恒流充电到 3.65V,然后转为在 3.65V 下恒压充电至截止电流 0.03C。

This"Standard Charge"means charging the cell at constant current of 0.5C to3.65V,then at constant voltage of 3.65Vwith 0.03C cut-off,at temperature25±2℃.

3.2 标准模式放电 Standard Discharge

标准模式放电的定义:在 25±2℃下,将满电态电芯以 0.5C 电流恒流放电到 2.0V。

This"StandardDischarge"means discharging the fully charged cell at constant current of 0.5C to2.0V,at temperature25±2℃.

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4.产品规格 Product Specifications

项目 Item	规格 Specification
4.1 标称容量 4.1Nominal Capacity	3200mAh(0.5C 放电容量,3.65~2.0V) 3200mAh(0.5Cdischarge,3.65~2.0V)
4.2 最小容量 4.2Minimum Capacity	3100mAh(0.5C 放电容量,3.65~2.0V) 3100mAh(0.5Cdischarge,3.65~2.0V)
4.3 标称电压 4.3Nominal Voltage	3.2V
4.4 标准充电电流 4.4 Standard charge current	0.5C
4.5 最大充电电流 4.5Max.Charge Current	3C(Ambient temperature25°C)
4.6 最大持续放电电流 4.6Max.Discharge Current	3C(Ambient temperature25°C)
4.7 标准放电电流 4.7 Standard discharge current	0.5C
4.8 交流内阻 4.8Internal AC Impedance	≤20mΩ ≤20mΩ
4.9 电芯重量 4.9Cell Weight	64±3 g
4.10 电芯尺寸 4.10Cell Dimension	高度 Height:70.8±0.2mm 直径 Diameter21.7±0.1mm
4.11 操作温度 4.11Operating Temperature	充电 Charge:0~60°C; 放电 Discharge:-20~60°C
4.12 电压范围(出货状态) 4.12Voltagerange (State of shipment)	20%充电态,开路电压范围 3.200-3.265V 20%state of charge(20%SOC); Open Circuit Voltage(OCV)is above3.200-3.265V
4.13 储存温度 4.13Storage Temperature(for shipping state)	15~35°C;15to35°C

5.外形尺寸 Outline Dimensions

见附图 1 See the attachment(Fig.1)

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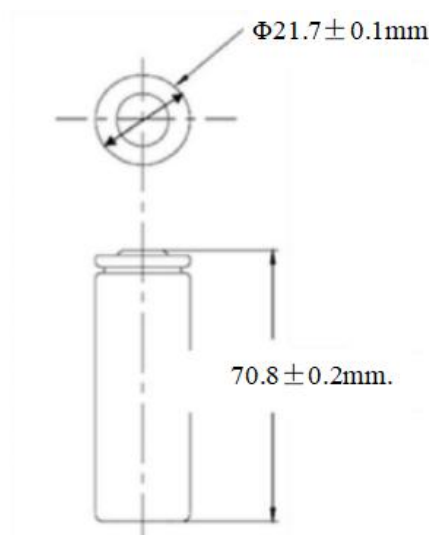


图 1.IFR21700 的外形尺寸图

Fig.1.Outline Dimensionsof-IFR21700

6.外观 Appearance

应没有如深度划痕、裂缝、生锈、斑点或漏液等影响电芯商业价值的外观瑕疵。

There shall be no such defects as deep scratch, crack, rust, discoloration or leakage, which may adversely affect the commercial value of the cell.

7.性能规格 Performance Specifications

7.1 标准测试条件 Standard Test Conditions

7.1.1 环境条件 Environmental Conditions

除非另有说明,本规格书中的所有测试应在 $25 \pm 3^\circ\text{C}$,相对湿度 $65 \pm 20\%$ 的环境下进行。

Unless other wise specified, all tests stated in this specification are conducted at temperature $25 \pm 3^\circ\text{C}$ and humidity $65 \pm 20\%$.

7.1.2 测量设备 Measuring Equipment

(1) 电流表和电压表 Ammeter and Voltmeter

电流表和电压表必须达到 0.5 级或以上。

The ammeter and voltmeter should have an accuracy of the grade 0.5 or higher.

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(2)游标卡尺 Slidecaliper

游标卡尺的最小刻度必须达到 0.01mm。

The slidecaliper should have 0.01mm scale.

(3)内阻测试仪 Impedancemeter

须使用 1kHz 的交流内阻测试仪。

The imped an cemeter with AC1kHz should be used.

7.2 电性能 Electrical Characteristics

NO. 序号	Item 项目	Standard 标准	Test Method 测试方法
7.2.1	初始容量 Initial Capacity	标准: 初始容量 ≥3100mAh Criteria:Initial Capacity≥3100mAh	电芯经标准模式 3.1 充电,充满电后,经标准模式 3.2 放电,初始容量应满足要求。 After the cell is charged in standard mode 3.1, it should be discharged in standard mode 3.2, and the initial capacity should meet the requirements.
7.2.2	1C/1C 循环寿命 Cycle Life	标准: 放电容量 (2001thcycle)≥80% Criteria:Discharge capacity(2001th cycle)≥80%	电芯以 1C 恒流恒压充电至 3.65V,截止 0.05C,然后以 1C 恒流放电至 2.5V,充电与放电之间需要搁置 10min,以一次充电和一次放电定义为 1 个循环。2000 次循环后,按照标准充放电模式测试电芯的放电容量。 Cells shall becharged at constant current of 1C to 3.65V with end current of 0.05C,and discharged at constant current of 1C to 2.5V.Cell sareto rest 10minutes after charge and discharge.A cycle is defined as one charge and one discharge.Discharge capacity shall be measuredper Standard Charge and Standard Discharge after 2000 cycles.
7.2.3	1C/2C 循环寿命 Cycle Life	标准: 放电容量 (1001thcycle)≥70% Criteria:Discharge capacity(1001th cycle)≥70%	电芯以 1C 恒流恒压充电至 3.65V,截止 0.05C,然后以 2C 恒流放电至 2.5V,充电与放电之间需要搁置 20min,以一次充电和一次放电定义为 1 个循环。1000 次循环后,按照标准充放电模式测试电芯的放电容量。 Cells shall becharged at constant current of 1C to 3.65V with end current of 0.05C,and discharged at constant current of 2C to 2.5V.Cell sareto rest 20minutes after charge and discharge.A cycle is

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			defined as one charge and one discharge. Discharge capacity shall be measured per Standard Charge and Standard Discharge after 1000 cycles.
7.2.4	1C/3C 循环寿命 Cycle Life	标准: 放电容量 (401th cycle) $\geq 70\%$ Criteria: Discharge capacity (401th cycle) $\geq 70\%$	电芯以 1C 恒流恒压充电至 3.65V, 截止 0.05C, 然后以 3C 恒流放电至 2.5V, 充电与放电之间需要搁置 30min, 以一次充电和一次放电定义为 1 个循环。400 次循环后, 按照标准充放电模式测试电芯的放电容量。 Cells shall be charged at constant current of 1C to 3.65V with end current of 0.05C, and discharged at constant current of 3C to 2.5V. Cell shall rest 10 minutes after charge and discharge. A cycle is defined as one charge and one discharge. Discharge capacity shall be measured per Standard Charge and Standard Discharge after 400 cycles.
7.2.5	2C/3C 循环寿命 Cycle Life	标准: 放电容量 (401th cycle) $\geq 70\%$ Criteria: Discharge capacity (401th cycle) $\geq 70\%$	电芯以 2C 恒流恒压充电至 3.65V, 截止 0.05C, 然后以 3C 恒流放电至 2.5V, 充电与放电之间需要搁置 30min, 以一次充电和一次放电定义为 1 个循环。400 次循环后, 按照标准充放电模式测试电芯的放电容量。 Cells shall be charged at constant current of 2C to 3.65V with end current of 0.05C, and discharged at constant current of 3C to 2.5V. Cell shall rest 30 minutes after charge and discharge. A cycle is defined as one charge and one discharge. Discharge capacity shall be measured per Standard Charge and Standard Discharge after 400 cycles.
7.2.6	0.5C/0.5C 循环寿命 Cycle Life	标准: 放电容量 (10001th cycle) $\geq 70\%$ Criteria: Discharge capacity (10001th cycle) $\geq 70\%$	电芯以 0.5C 放电至 2.0V 后, 再 0.5C 恒流充电, 充电截止容量 2.56Ah, 搁置 30min, 0.5C 恒流放电, 放电截止容量 0.64Ah, 搁置 30min, 以充电截止容量 2.56Ah, 放电截止容量 0.64Ah 进行循环, 连续次数 10000 次。 The cell to 0.5C discharge to 2.0V, then 0.5C constant current charging, charging cutoff capacity 2.56Ah, shelved for 30min, 0.5C constant discharge, discharge cutoff capacity 0.64Ah, shelved for 30min, to charge cutoff capacity 2.56Ah, discharge cutoff capacity 0.64Ah cycle, continuous times

				10000.
7.2.7	倍率放电性能 Discharge Rate Capabilities	电流 Current	相对容量 Relative Capacity	电芯以标准模式充满电后,按不同电流放电至 2.0V 来测试放电容量。 Discharge capacity is measured with various currents as below to 2.0V after the standard charge.
		0.5C	100%	
		1C	≥97%	
		2C	≥95%	
		3C	≥90%	
7.2.8	不同温度下的放电能力 Temperature Dependence of Discharge Capacity	温度 Temperature	相对容量 Relative Capacity	电芯以标准模式充满电后,在不同温度下静置 2 小时然后以 0.2C 恒流放电至 2.0V 来测试放电容量。 Cells shall be charged perStandard Charge.Then stored in the different temperature for 2h and discharged with constant current 0.2C to 2.0V to test the discharge capacity.
		-20℃	≥50%	
		0℃	≥80%	
		25℃	≥100%	
		60℃	≥98%	
7.2.9	存储特性 Storage characteristics (25±2℃)	标准:剩余容量≥90%,容量恢复率≥95%。 Criteria:Remaining capacity≥90% , Capacity recovery rate≥95%.		电芯以标准模式充满电后,在控制温度为 25±2℃的环境下储存 28 天,储存后,电芯按标准模式放电获得剩余容量,并按标准模式充电和标准模式放电。 Cells shall becharged perStandard Charge and stored in temperature-control ledenvironment at25±2℃ or 28 days. After storage, cells shall bedischarged perStandard Discharge to obtain there maining capacity, Standard Discharge cycledper&Standard Discharge .
7.2.10	存储特性 Storage characteristics (55±2℃)	标准:剩余容量≥90%,容量恢复率≥95%。 Criteria:Remaining capacity≥90% , Capacity recovery rate≥95%.		电芯以标准模式充满电后,在控制温度为 55±2℃的环境下储存 7 天,储存后,电芯按标准模式放电获得剩余容量,并按标准模式充电和标准模式放电。 Cells shall becharged perStandard Charge and stored in temperature-control ledenvironment at55±2℃ or 7 days. After storage, cells shall bedischarged

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			perStandard Discharge to obtain there maining capacity, Standard Discharge cycledper&Standard Discharge .
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7.3 环境适应性能 Environmental Characteristics.

NO. 序号	Item 项目	Standard 标准	Test Method 测试方法
7.3.1	高温高湿测试 High Temperature and High Humidity Test	标准:外观无明显变形, 锈蚀、冒烟或爆裂。放电时间不低于 96min。 Criteria: No visible distortion, no rust, no smoke, no explosion. Discharging time is not less than 96min.	电芯以标准模式充满电,在 40±2℃, 相对湿度 90~95%的恒温恒湿箱中搁置 48h, 而后取出在 25±2℃下搁置 2h, 目测外观, 再以 0.5C 放电至终止电压, 测量放电时间。 After standard charge, have a 48h rest period in a box with a constant relative humidity 90 ~ 95% and a constant temperature 40±2℃,take out and have a 2h rest period, check the appearance. Finally discharge with constant current 0.5C to the cut-off voltage, note the discharging time.

7.4 安全性能 Safety Performance.

NO. 序号	Item 项目	Standard 标准	Test Method 测试方法
7.4.1	外部短路测试 External Short-Circuiting Test(25±2℃)	标准:不起火,不爆炸,电芯表面温度不超过 150℃。 Criteria:No fire,No explosion,The temp of the exteriorcell shall not exceed150℃.	电芯以标准模式充电,将电芯的正极和负极以一根电阻为 80±20mΩ的导线相连接,并维持 1 小时。 Cells are charged perStandard Charge,and the positive and negative terminalis connected by a 80±20mΩ-wirefor1hour.
7.4.2	热冲击测试 HeatingTest	标准:不起火,不爆炸。 Criteria:No fire,No explosion.	电芯以标准模式充电,置入鼓风烘箱中并以 5℃/min 的速率升温至 130℃,在 130℃下维持 30min。 Cells are charged perStandard Charge and heate dinacirculating air oven atarate of 5°Cperminute to130°C.and remain then oven at 130℃ for 30 minutes.
7.4.3	过充电测试 OverchargeTest	标准:不起火,不爆炸。 Criteria:No fire,No	电芯按照标准放电至终止电压,然后将电芯置于通风橱中,连接电芯正负极与

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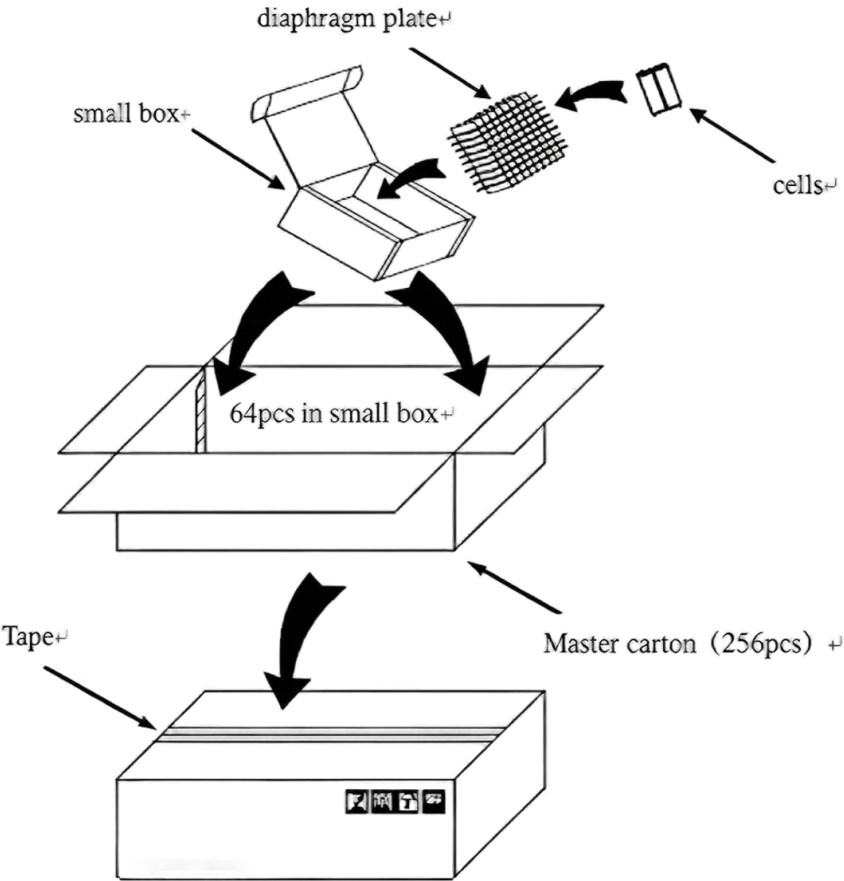
		explosion.	电源, 以 1C 电流充电至 5.5V 或充电达 1.5h 后停止充电, 观察 6h。 Standard discharge to the ending voltage. Then place the cell in the fumecupboard, connect the positive and negative power supply, Charge to 5.5V with a current of 1C or charge for 1.5h and then stop, observe for 6h .
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7.5 机械性能 Mechanical Performance.

NO. 序号	Item 项目	Standard 标准	Test Method 测试方法
7.5.1	跌落测试 DropTest	标准:不起火,不爆炸,不漏液 Criteria:No fire,no explosion,no leakage.	电芯标准充电后, 搁置 4h 将电池由 1m 高度自由跌落到水泥地板上, (头部、尾部各 1 次, 侧面 2 次) 共跌落 4 次, 试验后放置 1 小时再观察。 Cell charge standard, put 4 h battery by 1 m high free fall onto the concrete floor .the two end surfaces of the cell dropped once each,and the cylinder dropped 2 times ,A total of 4drop test were carried out,and the appearance was observed after the experiment was piaced for 1h.
7.5.2	振动测试 VibrationTest	标准: 放电容量≥标称容量×95% 电池不漏液、不起火、不爆炸。 Criteria:Discharge capacity nominal capacity 95%Battery does not leak liquid,does not catch fire, doesnot explode.	电池标准充电后, 固定在振动台上, 沿 X、Y 方向各振动 30min, 振动频率为 10Hz~55Hz, 扫频速率为 1oct/min 位移幅值 0.38mm(10-30Hz);0.19mm (30-55Hz) 振动后以 0.5C 放电至 2.0V。 After standard charging, the battery is fixed on the vibration table and vibrates in X and Y directions for 30min at a frequency of 10Hz ~ 55Hz and a sweep rate of 1oct/min Displacement amplitude 0.38mm(10-30hz); 0.19 mm (30 to 55 hz) After vibration, discharge at 0.5C to 2.0v.

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8. 包装 Packing



9. 保修期 Warranty Period

只要按照本说明书、正确使用和处理电芯,贵州兆科能源有限公司保证电芯自生产日期起 1 年以内不出现任何缺陷。

As long as the cell is treated in accordance with this Product Specification and/or Proper Use and Handling, Guizhou Zhaoke Energy Co., Ltd warrants that the cell should be free from any defect for a period of 1 year from date of manufacturing.

10. 产品责任 Product Liability

贵州兆科能源有限公司的责任范围只涵盖电芯本身,而客户应承担包括电芯和保护线路板在内的电池产品责任。

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The coverage of Guizhou Zhaoke Energy Co., Ltd is for the cell it self,while the customer assumes the liability of the battery including the cell and it sprotection circuit.

请您务必按照所提供的规格说明书和本文最后所附的注意事项来使用贵州兆科能源有限公司生产的电池。

You are kindly requested to use the cell which is delivered from Guizhou Zhaoke EnergyCo., Ltd in strict accordance with the specification and remarks includeat the end of the document.

不正确使用电池,可能会发生意外或起火。对于客户在超出规格说明书以外的情况下使用电池,贵州兆科能源有限公司不保证其安全性能。

Dueto improperusage of the cell,an accident or a fire may occur.Guizhou Zhaoke Energy Co., Ltd will not guaran teeagainst any accident so ccurring dueto use beyond the content of this specification.

11.运输 Transportation

电池应包装成箱进行运输,在运输过程中应防止剧烈振动、冲击或挤压、防止日晒雨淋、可使用汽车、火车、轮船、飞机等交通工具运输。

Batteries should be packedin boxes for transportation.During transportation,avoidsevere vibration,impactors queezing,prevent sunandrain,and can be transported by vehicles,trains,ships,air planes and other transportation.

12.长期贮存 Long-termstorage

在充满电后请在短时间内将电池使用,因为长时间在此条件下会由于自放电等原因而导致容量衰减。如果电芯需要存储超过3个月以上时,请将电芯充至半电并在干燥和低温条件下存储。我们的运输电压为3.25V-3.35V. 高电压存储会导致电芯性能变差。

Please use the battery with in a short time after being fully charged, because the capacity will decrease dueto self-discharge and other reasons under this condition for along time.If the battery cell needs to bestored for more than3months,please charge the battery cell to half charge and storeit under dry and low temperature conditions.Our transportation voltageis3.25V-3.35V.High voltage storage will cause deterioration of battery cell performance.

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13.警告、注意、提醒 Warning,Notice and Caution

使用前请仔细阅读并遵守以下电池相关注意事项,不适当的使用电池会引起电池起火、破裂、损坏、及电池容量衰竭。

Please read and follow the announcements for the cell before use.Improper use of the cell may cause heat,fire,rupture,damage or capacity deterioration of the cell.



- (1).请勿将电池放入火中，或对电池加热，请勿在高温下储存电池；
- (1).Do not put the cell into a fire,or heat the cell,do not store the cell in high temperature environment.
- (2).安装电池时请勿将正负极反接；
- (2).Do not connect the cell reversed in positive(+)andnegative(-)terminals in the charger or equipment.
- (3).请勿将电池用导线或任何金属（如金属项链或金属发卡）直接连接或放在一起，可能导致电池短路；
- (3).Do not let the cell terminals(+/-)contact a wire or any metal (like a metal necklace or a hairpin) with which it is carried or stored together,may cause short-circuit.
- (4).请勿用针刺、用锤敲打、用力踩踏或其它方式对电池惊醒撞击；
- (4).Do not drive a nail in, hit with a hammer, or stamp on the cell, do not strike the cell other ways.
- (5).请勿拆开电池或随意改变电池结构；
- (5).Do not disassemble or alter the cell's outside structure.
- (6).请勿将电池放入水中，储存时注意电池使电池受潮。
- (6).Do not submerge the cell in water, do not wet the cell when store the cell.



- (1).请勿使用不合格的充电器对电池充电，并遵守正确的使用说明；
- (1).Cells should be charged with proper charger,in compliance with correct operation contents.
- (2).请勿将电池与其它不同标示、不同型号、不同种类如干电池、镍氢电池、镍镉电池混用或

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新旧电池混用;

(2).Do not use the cell with other maker's cells,different typesand/or models of cells such as dry cells,nickel-metalhy dride cells,ornickel-cadmium cells,or new and old lithium cells together.

(3).请勿将老化、发热、变形、漏液或其它异常的电池放在充电器上充电;

(3).Do not leave the cell in acharger o requipment if it generates anold erand/orheat,changes colorand/orshape,leaks electrolyte,or cause any othe rabnormality.

(4).在电池没有充电的情况下, 请勿对电池进行持续过放。

(4).Do not discharge the cell continuously when it is not charged



(1).如果儿童使用电池, 请预先按照说明书进行指导, 确保他们在任何时间能正确使用电池;

(1).Incase young children use cells,instruct the mon the contents of the instruction sandensure the cell iscorrectly used by the matall times.

(2).电池出货前已由 QA 严格按规格书进行检查, 如您发现所购电池有发热或异味现象, 请与我们联系;

(2).The cell was inspected carefully by QA before shipment to confirm with the specifications.However,in the case any abnormality of bad smell or heat,etc.arise after purchase,please communicate with us.

(3).长时间储存电池时, 请您对电池用 0.1C 的电流充电 5 小时左右;

(3).For long-term storage,please chargea t0.1Cfor about five hour sinadvance.

(4).请勿超出说明书以外的情况使用电池, 否则可能导致电池发热、损坏或降低电池性能。

(4).Do not use the cell in other than theinstructions,Otherwise the cell might cause heatgeneration, damage,ordeterioration of it sperformance.

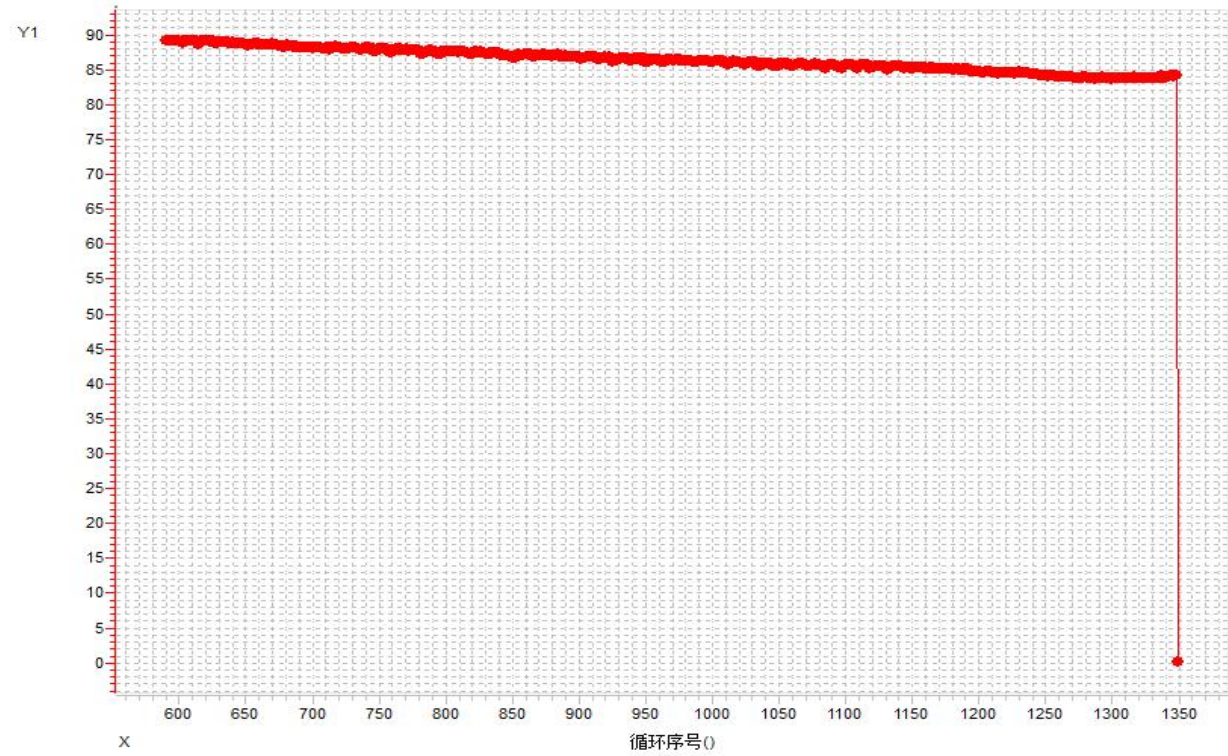
操作环境 Operating environment

充电 Charge:	0°C~+60°C	
放电 Discharge:	-20°C~+60°C	
储存>1 个月	Stored for 1month or more	最佳储存温度+20°C~+35°C

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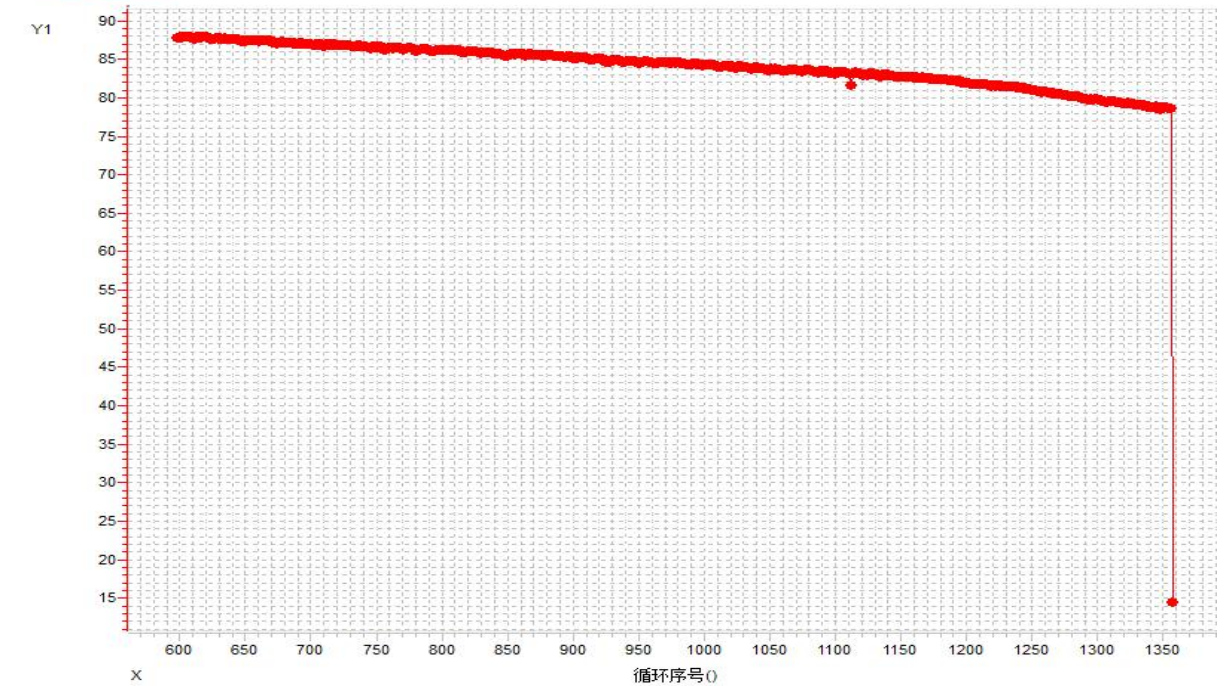
14.2 1C 充/2C 放循环曲线

Y1:放电容量衰减率()



14.3 1C 充/3C 放循环曲线

Y1:放电容量衰减率()



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14.4 2C 充/3C 放循环曲线

Y1:放电容量衰减率()

