



UN38.3 测试报告 UN38.3 Test Report

报告编号Report No.: S03A22030287U00101

样品名称: 电池手柄

Sample Name: Battery station

样品型号:

不開金 5: Sample Model: amaran tube T2c/T4c

委托单位: 深圳市爱图仕影像器材有限公司 Applicant: Aputure Imaging Industries Co., Ltd

签发日期: 2022-03-16 Issue Date:

广东储能长测技术有限公司
Guangdong ESTLATECTHOLOgy Co., Ltd.

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样品描述 Sample De	escription		7/2 A A II A				
样品名称 Sample Name	电池手柄 Battery station	样品型号 Sample Model	amaran tube T2c/T4c				
测试实验室 Testing laboratory		广东储能检测技术有限公司 Guangdong ESTL Technology Co., Ltd.					
测试地址 Testing Address	广东省东莞市松山湖园区总 Room 101, 201-208, Unit 1 Lake Park, Dongguan, Gua	I, Building 1, No. 9 Head	、201-208室。 lquarters 2nd Road, Songshan				
委托单位 Applicant	深圳市爱图仕影像器材有限						
委托单位地址 Applicant Address	深圳市龙华和平西路部九窝	Aputure Imaging Industries Co., Ltd 深圳市龙华和平西路部九窝龙军工业区21栋3楼 Floor 3, Building 21, Longjun Industrial Zone, Longhua, Shenzhen, Guangdong Province, P.R. CHINA					
制造商 Manufacturer	东莞市欣柯达能源有限公司 DONGGUAN XIN KE DA E						
制造商地址 Manufacturer Address	东莞市塘厦镇石鼓社区向阳 101 No.101A1 Building No community Tangxia Town,	.1, Julong road, Xiangya					
电芯生产单位 Factory of Cell	江西远东电池有限公司 Jiangxi Far East Battery Co	o., LTD					
测试标准 Standard	联合国《试验和标准手册》 UNITED NATIONS the "Ma Section 38.3.		a" (ST/SG/AC.10/11/Rev.7)				
接样日期 Date of sample receipt	2022-02-25						
测试日期 Tested date	2022-02-26 to 2022-03-14	ı					

检验结论 Test conclusion:

The Battery station submitted by DONGGUAN XIN KE DA ENERGY CO., LTD are tested according to UNITED NATIONS the "Manual of Test and Criteria" (ST/SG/AC.10/11/Rev.7) Section 38.3. The test items are full items. The test results comply with the relevant requirements of the standard.

由东莞市欣柯达能源有限公司送检的电池手柄,依据联合国《试验和标准手册》第七修订版第38.3节进行检测,试验为全项目,测试结果符合标准相关要求。

检测 Tested by

吴星零

审核 Reviewed by

许任

批准 Approved by

ESTI Technolog

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样品信息 Sample Information							
标称电压 Nominal Voltage	14.8V	额定容量 Rated Capacity	5200mAh				
瓦时 Watt-hour	76.96Wh	商标 Trade mark	amaran				
限制电压 Limited Charge Voltage	24V (CV)	放电终止电压 Discharge Cut-Off Voltage	11V				
充电电流 Charge Current	2.5A	最大持续充电电流 Max. Continuous Charge Current	2.5A				
放电电流 Discharge Current	1040mA	最大持续放电电流 Max. Continuous Discharge Current	5A				
充电截止电流 End Charge Current	104mA	电池尺寸 Battery dimensions	214.0mm*43.0mm*43.0mm				
电芯型号 Cell Model	18650-2600mAh	电芯容量 Cell Rated Capacity	2600mAh				
组合方式 Compound mode		4S2P					

Description of the sampling procedure: /

取样程序的说明:/

Description of the deviation from the standard, if any: /

测试结果不符合标准项的说明:/

Remarks/备注:

1. 本报告中以点代替小数点。

Throughout this report a comma is used as the decimal separator.

2. 判定栏中 "-"表示 "不需要判定", "P"表示"通过", "F"表示"不通过", "N/A"表示"不适用"。

As for the Verdict, "-" means "no need for judgement", "P" means "pass", "F" means "fail" and "N/A" means "not applicable".

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Summary of testing:

Tests performed (name of test and test clause):

Test items	Sample Number
T.1: Altitude simulation / 高度 模拟	
T.2: Thermal test / 温度试验	
T.3: Vibration / 振动	B1# - B8#
T.4: Shock / 冲击	
T.5: External short circuit / 外接短路	
T.6: Crush / 挤压 or Impact/撞击	C1# - C10#
T.7 Overcharge / 过充电	B9# - B16#
T.8: Forced discharge / 强制 放电	C11# - C30#

The samples' state is good.

样品状况良好。

Batteries of B1#~B4# B9#~B12 are full charged after one cycle; 多电芯电池B1#~B4# B9#~B12 为1次循环满电状态;

Batteries of B5#~B8# B13#~B16 are full charged after twenty-five cycles;

多电芯电池B5#~B8# B13#~B16为25次循环满电状态;

Rechargeable cells of C1#~C5# are 50% charged after one cycle;

可充电电芯C1#~C5#为1次循环后50%充电状态;

Rechargeable cells of C6#~C10# are 50% charged after twenty-five cycles;

可充电电芯C6#~C10#为25次循环后50%充电状态;

Rechargeable cells of C11#~C20# are full discharged after one cycle;

可充电电芯C11#~C20#为1次循环完全放电状态;

Rechargeable cells of C21#~C30# are full discharged after twenty-five cycles;

可充电电芯C21#~C30#为25次循环完全放电状态;

Testing location:

测试地点:

广东储能检测技术有限公司

Guangdong ESTL Technology Co., Ltd.

广东省东莞市松山湖园区总部二路9号1栋1单元101、201-208室。

Room 101, 201-208, Unit 1, Building 1, No. 9 Headquarters 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China.

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Test Procedure:

1.Each battery type is subjected to tests T.1 to T.8. Tests T.1 to T.5 are conducted in sequence on the same battery. Tests 6 and 8 are conducted using not otherwise tested batteries. Test T.7 may be conducted using undamaged batteries previously used in Tests T.1 to T.5 for purposes of testing on cycled batteries.

每一种类型的电池均应进行T.1至T.8项试验。电池必须按顺序在相同的一组电池上进行试验T.1至T.5。试验T.6和T.8应使用未另外试验过的电池。试验T.7可以使用先前在试验T.1至T.5中使用过的未损坏电池进行,以便测试进行在循环过的电池上。

2.In order to quantify the mass loss, the following procedure is provided:

Mass loss(%)= $(M_1-M_2)/M_1 \times 100$

为了量化质量损失,可用以下公式计算:质量损失(%)=(M₁-M₂)/M₁×100

Where M_1 is the mass before the test and M_2 is the mass after the test. When mass loss does not exceed the values in Table below, it is considered as "no mass loss".

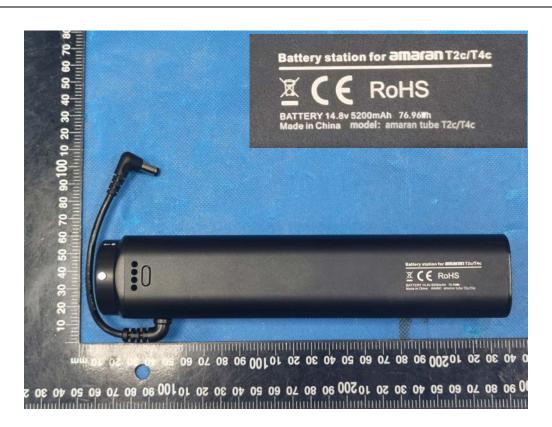
式中: M₁是试验前的质量, M₂是试验后的质量。如果质量损失不超过下表所列的数值, 应视为"无质量损失"。

Mass M of cell or battery	Mass loss limit
电芯或电池的质量	质量损失限值
M<1g	0.5%
1g≤M≤75g	0.2%
M>75g	0.1%

3. In test T.1 to T.4, batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test battery after testing is not less than 90% of its voltage immediately prior to this procedure.

在测试T.1至T.4中,电池须满足无渗漏、无泄气、无解体、无破裂和无起火,并且每个试验电池在试验后的 开路电压不小于其在进行这一试验前电压的90%。

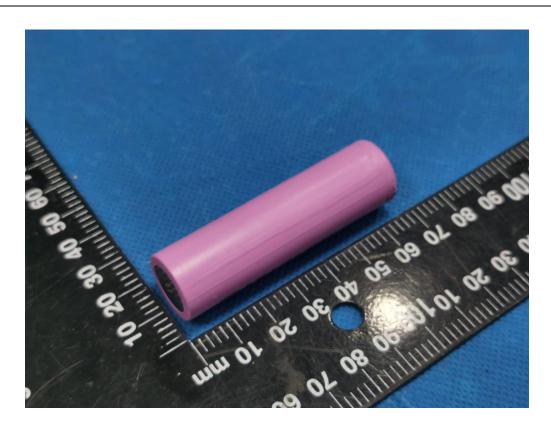
Photos of Samples and Labels/样品照片及标识





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Photos of Samples and Labels/样品照片及标识





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38.3.4	Procedure / 测试步骤		判定 Verdict
38.3.4.1	Test 1: Altitude simulation / 测试1: 高度模拟		Р
	Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hour at ambient temperature (20±5°C). 试验电芯和电池在温度为20±5°C,大气压力为不大于11.6kpa 的环境中贮存不少于6 个小时。		Р
	Requirement / 标准要求: 1. Cells and batteries Mass loss limit: ≤0.1%. 样品质量损失≤0.1%。 2. Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states. 样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电的电池和电芯。 3. No leakage, no venting, no disassembly, no rupture and no fire. 样品应无漏液、无排气、无解体、无破裂以及无着火现象的发生。	No leakage, no venting, no disassembly, no rupture and no fire. 无漏液、无排气、无解体、无破裂以及无着火现象。 The data see table 1. /测试数据见表1。	Р
38.3.4.2	Test 2: Thermal test / 测试 2: 温度试验		Р
	Test cells and batteries are to be stored for 试验电芯和电池存储条件如下: 1. one temperature cycle: 72±2°C(6h) — -40±2°C(6h). —次温度循环为72±2°C(6h) — -40±2°C(6h)。 2. The maximum time interval between test temperature extremes is 30 minutes. 温度转换最大间隔时间为30mins。 3. This procedure is to be repeated 10 times. 重复10 次循环。 4. after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20±5°C). 循环结束后,所有试验电芯和电池在 20±5°C的条件下 搁置24 小时。		P
	Requirements / 标准要求: 1. Cells and batteries Mass loss limit: ≤0.1%. 样品质量损失≤0.1%。 2. Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states. 样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电的电池和电芯。 3. No leakage, no venting, no disassembly, no rupture and no fire. 样品应无漏液、无排气、无解体、无破裂以及无着火现象的发生。	No leakage, no venting, no disassembly, no rupture and no fire. 无漏液、无排气、无解体、无破裂以及无着火现象。 The data see table 1. /测试数据见表1。	P

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38.3.4.3	Test 3: Vibration / 测试 3: 振动		Р
	Cells and batteries are firmly secured to the platform of the vibration machine.		Р
	电芯和电池牢固地安装在振动台(的台面)上。		
	2. The vibration :a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes.		
	振动以正弦波形式,以7Hz 增加至200Hz,然后在减少回到7Hz 为一个循环,一个循环持续15 分钟的对数前移传送。		
	3. the logarithmic frequency sweep is as follows: from 7 Hz a peak acceleration of 1 gn is maintained until 18 Hz is reached, The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of 8 gn occurs (approximately 50Hz), A peak acceleration of 8 gn is then maintained until the frequency is increased to 200 Hz.		
	对数扫频为:从7 赫兹开始保持1gn 的最大加速度直到频率为18 赫兹,然后将振幅保持在0.8 毫米(总偏移1.6 毫米)并增加频率直到最大加速度达到8gn(频率约为50 赫兹),将最大加速度保持在8gn 直到频率增加到200 赫兹。		
	4. This cycle repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting position of the cell. One of the directions of vibration must be perpendicular to the terminal face.		
	以振动的其中一个方向必须是垂直样品极性,对每个电芯从三个互相垂直的方向上循环12次,每个方向3个小时,共9小时。		
	Requirements / 标准要求:	No leakage, no	Р
	1. Cells and batteries Mass loss limit: ≤0.1%.	venting, no disassembly, no	
	样品质量损失≤0.1%.	rupture and no fire.	
	2. Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states.	无漏液、无排气、无解体、无破裂以及无着火现象。	
	样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电的电芯和电池。	The data see table 1. /测试数据见表1。	
	3. No leakage, no venting, no disassembly, no rupture and no fire.	//侧 \	
	样品应无漏液、无排气、无解体、无破裂以及无着火现象 的发生。		
38.3.4.4	Test 4: Shock / 测试 4: 冲击		Р

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machine be mounting battery sh acceleration millisecon to a half-spulse dura 试验电芯机以支撑每个加速度150	and batteries shall be secure by means of a rigid mount who surfaces of each test battery all be subjected to a half-sing on of 150 gn and pulse durateds. Alternatively, large cells in ine shock of peak acceleration of 11 milliseconds. 即电池应通过坚固的方式紧固个被测电池的所有面。每个电 0 gn、脉冲时间6 ms的半正弦用峰值加速度50 gn、脉冲时间		Р			
peak acce The pulse batteries a formulas b minimum 每个电池员 的质量。	ery shall be subjected to a had eleration depending on the moduration shall be 6 milliseco and 11 milliseconds for large below are provided to calculate peak accelerations. 应用半正弦波冲击的峰值加速 小电池应用6 ms的脉冲时间以时间。根据下面的公式来计算	ass of the b ands for sma batteries. T ate the appro 度大小取决 及大电池应 算合适的最小	attery. II he opriate 于电池 用11		Р	
Battery	Minimum peak acceleration	Pulse duration				
Small batteries	150 gn or result of formula Acceleration (gn) $= \sqrt{\left(\frac{100850}{mass*}\right)}$ Whichever is smaller					
Large batteries	50 gn or result of formula $Acceleration (gn)$ $= \sqrt{\frac{30000}{mass*}}$ Whichever is smaller	11ms				
positive di direction is mounting shocks. 每个电芯	or battery is subjected to thre rection and to three shocks in each of three mutually perpositions of the cell or batter 或电池应在三个垂直面的正向		Р			

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	Requirements / 标准要求:	No leakage, no	Р
	1. Cells and batteries Mass loss limit: ≤0.1%.	venting, no disassembly, no	
	样品质量损失≤0.1%。	rupture and no fire.	
	2. Open circuit voltage not less than 90%, The requirement relating to voltage is not applicable to test cells and batteries at full discharged states.	无漏液、无排气、无解体、无破裂以及无着火现象。	
	样品试验后开路电压应不低于试验前开路电压的90%,此要求不适用于完全放完电的电芯和电池。	The data see table 1.	
	3. No leakage, no venting, no disassembly, no rupture and no fire.	/测试数据见表1。	
	样品应无漏液、无排气、无解体、无破裂以及无着火现象的发生。		
38.3.4.5	Test 5: External Short Circuit / 测试5 外接短路		Р
	1. The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches 57±4°C.		Р
	保持试验环境温度稳定在57±4℃,以使电芯或电池样品外表温度达到57±4℃。		
	2. the cell or battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at 57±4°C, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57±4°C.		
	将样品正负极用小于0.1Ω的总电阻回路进行短路,样品的外表温度恢复到57±4℃之后保持短路状态1小时以上。		
	3. the cell or battery must be observed for a further six hour for the test to be concluded.		
	对电芯或电池必须进一步观察6个小时才能下结论。		
	Requirements / 标准要求: During the test and within six hours after test, the cells or batteries.	External temperature not exceed 170°C 外表温度不超过170°C	Р
	在测试过程中以及之后6个小时内,电芯或电池样品。	No disassembly, no	
	1. External temperature not exceed 170°C.	rupture and no fire.	
	外表温度不超过170℃。	无解体、无破裂和无着	
	2. No disassembly, no rupture and no fire.	火现象发生。	
	样品应无解体、无破裂和无着火现象发生。	The data see table 1. /测试数据见表1。	
38.3.4.6	Test 6: Impact / Crush / 测试6: 撞击 / 挤压		Р
	Impact (applicable to cylindrical cells not less than 18mm in diameter).		Р
	撞击(适用于直径不小于18毫米的圆柱形电芯)。		

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1. This test sample cell or component cell is to be placed on a flat smooth surface.		Р
将试验样品用的电芯或元件电芯放在一个平坦光滑的平面上。		
2. A 15.8mm±0.1mm diameter bar is to be placed across the center of the sample, A 9.1kg mass is to be dropped from a height of 61±2.5cm onto the sample.		
将一直径为15.8mm±0.1mm的钢棒横过电池中部放置后,将一质量为9.1kg±0.1kg的物体从61±2.5cm的高度落向样品。		
3. The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8mm±0.1mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.		
接受撞击的试样,纵轴应与平坦的表面平行并与横放在试样中心的直径15.8mm±0.1mm弯曲表面的纵轴垂直。每一个试样只经受一次撞击。		
Requirements / 标准要求:	External temperature	Р
1. Test cells or component cells external temperature not	not exceed 170°C	
exceed 170°C.	外表温度不超过170℃	
电芯或元件电芯的最高表面温度应不超过170℃。	No disassembly, no rupture and no fire.	
2. No disassembly and no fire within six hours of this test.	无解体、无破裂和无着	
试验结束后6个小时之内,应无解体和无着火现象发生。	火现象发生。	
	The data see table 2.	
	/测试数据见表2。	
Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18mm in diameter).		N/A
挤压(适用于棱柱形、袋装、硬币/纽扣电芯和直径小于 18 毫米的圆柱形电芯)。		

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38.3.4.7	Test 7: Overcharge / 测试 7: 过充电		Р
	试验结束后6个小时之内,应无解体和无着火现象发生。		
	2. No disassembly and no fire within six hours of this test.		
	电芯或元件电芯的最高表面温度应不超过170℃。		
	exceed 170°C.		
	1. Test cells or component cells external temperature not		14// (
	Requirements / 标准要求:		N/A
	棱柱形或袋装电芯应从最宽的一面施压。纽扣/硬币形电池 应从其平坦表面施压。圆柱形电芯应从与纵轴垂直的方向 施压。		
	For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis.		
	2. A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces.		
	电芯变形达原始厚度的50%以上。		
	(c) The cell is deformed by 50% or more of its original thickness.		
	电芯的电压下降至少100毫伏。		
	(b) The voltage of the cell drops by at least 100 mV.		
	施加的力达到13 千牛±0.78 千牛。		
	(a) The applied force reaches 13 kN \pm 0.78 kN.		
	将电芯或元件电芯放在两个平面之间挤压,挤压力度逐渐加大,在第一个接触点上的速度大约为1.5 厘米/秒。挤压持续进行,直到出现以下三种情况之一:		
	flat surfaces. The crushing is to be gradual with a speed of approximately 1.5 cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.		IN/A
	1. A cell or component cell is to be crushed between two	2)(-1-0	N/A

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	The charge current shall be twice the manufacturer's recommended maximum continuous charge current.	The voltage of the test is 28.8V, and the	Р
	以2倍制造厂推荐的最大持续充电电流对样品充电。	current is 5.0A. / 测试	
	2. The minimum voltage of the test shall be as follows:	电压为28.8V, 电流为 5.0A.	
	本测试最小电压为:	5.UA.	
	a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V.		
	如果厂家推荐的充电电压不超过18V,本测试的最小充电电压应是厂家标定最大充电电压的两倍或者是22V之中的较小者。		
	b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage.		
	如果厂家推荐的充电电压超过18V,本测试的最小充电电压应是厂家标定最大充电电压的1.2倍。		
	3. Tests are to be conducted at ambient temperature 20±5°C, The duration of the test shall be 24 hours.		
	20±5℃的环境温度下,试验持续24 小时。		
	Requirements / 标准要求:	No disassembly and no	Р
	No disassembly and no fire within seven days of this test.	fire	
	试验样品在试验中和试验后7天内,应无解体和无着火现象发生。	无解体和无着火现象发生。 生。	
		The data see table 2. /测试数据见表2。	
38.3.4.8	Test 8: Forced discharge / 测试 8: 强制放电		Р
	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12 V D.C.		Р
	power supply at an initial current equal to the maximum discharge current specified by the manufacturer.		
	discharge current specified by the manufacturer. 20±5°C的环境温度下,将单个电芯连接在12V 的直流电源上进行强制放电,此直流电源提供给每个电芯初始电流为		Р
	discharge current specified by the manufacturer. 20±5°C的环境温度下,将单个电芯连接在12V 的直流电源上进行强制放电,此直流电源提供给每个电芯初始电流为制造厂指定的最大放电电流。 The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere). 指定的放电电流通过串联在测试电芯上的合适大小和功率的负载来获得,每个电芯的强制放电时间(小时)为额定	No disassembly and no	P
	discharge current specified by the manufacturer. 20±5°C的环境温度下,将单个电芯连接在12V 的直流电源上进行强制放电,此直流电源提供给每个电芯初始电流为制造厂指定的最大放电电流。 The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere). 指定的放电电流通过串联在测试电芯上的合适大小和功率的负载来获得,每个电芯的强制放电时间(小时)为额定容量除以初始电流(安培)。	fire.	
	discharge current specified by the manufacturer. 20±5°C的环境温度下,将单个电芯连接在12V 的直流电源上进行强制放电,此直流电源提供给每个电芯初始电流为制造厂指定的最大放电电流。 The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere). 指定的放电电流通过串联在测试电芯上的合适大小和功率的负载来获得,每个电芯的强制放电时间(小时)为额定容量除以初始电流(安培)。 Requirements / 标准要求:	•	

	Table 1: T1-T5 / 表1. 试验1-试验5										
Sample No. / 样 品编号	Mass prior to test / 试验前 质量(g)	OCV prior to test / 试验前 电压(V)	simu	Altitude lation 高度模拟		nermal test 温度实验		Vibration 3: 振动		Shock 1: 冲击	Test 5: External Short Circuit 测试 5: 外接短路
			Mass loss(%) 质量损失 (%)	Change ratio 电压比(%)	Mass loss(%) 质量损失 (%)	Change ratio 电压比(%)	Mass loss(%) 质量损失 (%)	Change ratio 电压比(%)	Mass loss(%) 质量损失 (%)	Change ratio 电压比(%)	Temp. (℃) 温度 (℃)
B1#	630.6	16.70	0.000	100.00	0.000	99.22	0.000	100.00	0.000	100.00	57.5
B2#	633.6	16.71	0.000	99.94	0.016	99.22	0.000	100.00	0.000	100.00	57.6
B3#	633.8	16.71	0.016	100.00	0.000	99.28	0.000	100.00	0.000	100.00	57.4
B4#	632.4	16.72	0.000	99.94	0.000	99.10	0.000	100.00	0.000	100.00	57.4
B5#	634.0	16.71	0.000	100.00	0.016	99.28	0.000	100.00	0.000	100.00	57.6
B6#	630.8	16.72	0.000	100.00	0.016	99.22	0.000	99.94	0.000	100.00	57.7
B7#	634.2	16.70	0.000	100.00	0.000	99.10	0.000	100.00	0.000	100.00	57.6
B8#	633.5	16.71	0.016	100.00	0.000	99.22	0.000	100.00	0.000	100.00	57.4

Table 2: T6-T8 / 表2. 试验6-试验8						
Test 6:-Impact-/ Crush / 测试6: 撞击/ 挤压			Test 7: Overcharge / 测试7:过充电		Test 8: Forced discharge / 测试8: 强制放电	
Sample No. / 样品 编号	OCV prior to test / 试 验前电压 (V)	Temp. (℃) / 温度 (℃)	Sample No. / 样品编号	OCV prior to test / 试验前电 压(V)	Sample No. / 样 品编号	OCV prior to test / 试验前电压(V)
C1#	3.823	121.3	B9#	16.71	C11#	3.073
C2#	3.825	115.4	B10#	16.70	C12#	3.065
C3#	3.819	116.0	B11#	16.70	C13#	3.068
C4#	3.823	100.5	B12#	16.72	C14#	3.081
C5#	3.816	103.1	B13#	16.70	C15#	3.076
C6#	3.818	107.6	B14#	16.71	C16#	3.069
C7#	3.820	114.2	B15#	16.71	C17#	3.080
C8#	3.816	114.3	B16#	16.72	C18#	3.085
C9#	3.823	114.1			C19#	3.077
C10#	3.819	116.9			C20#	3.061
					C21#	3.075
					C22#	3.088
					C23#	3.062
					C24#	3.073
					C25#	3.076
					C26#	3.080
					C27#	3.068
					C28#	3.081
					C29#	3.078
					C30#	3.084

⁻⁻⁻ 报告结束 ---

⁻⁻⁻ End of report ---

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声明 Declaration

1. 本报告无批准人、审核人及鉴定人签名无效。

The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.

2. 对检验报告若有异议,应于收到报告之日起十五天内向检验单位提出。

Objections to the test report must be submitted to ESTL within 15 days.

3. 未经本试验室书面同意,不得部分地复制本报告。

Nobody is allowed to photocopy or partly photocopy this test report without written permission of ESTL.

4. 客户必须如实提供样品及资料,并保证申报品名和样品以及运输货物相同,否则本检测单位不承担任何相关责任。

The client should provide samples and relevant data, at the same time, they should guarantee the consistence of the product's name the declared, the samples they provided and the goods to be transported. Otherwise we will not bear any relevant responsibilities.

5. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

6. 任何情况下检测单位的赔偿责任都不会超过检测单位就本次检测所收取的检测费用。

ESTL's liability under no circumstance will exceed the testing fee received from applicant for test conducted hereof this testing report.

7. 本报告涂改无效。

The test report is invalid if altered.

--- 报告结束 ---

--- End of report ---