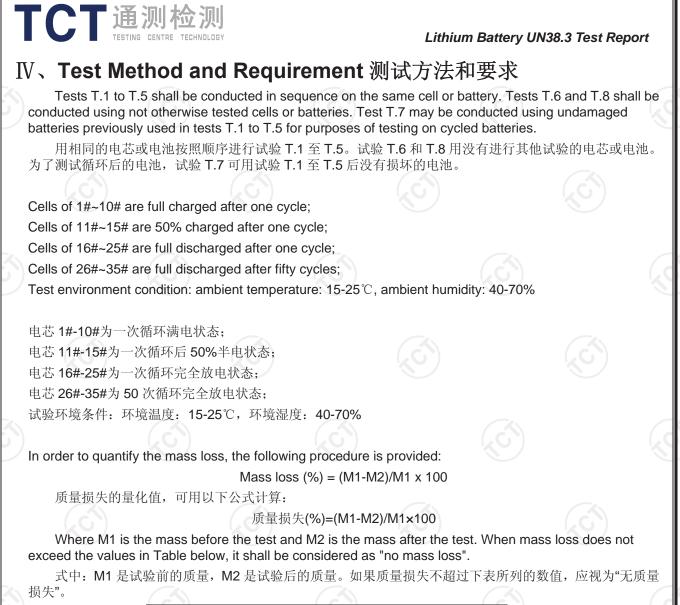
	N38.3	检测报	告	
U	138.3 To	est Re	port	
Client	USC056	<u>c</u>	(C)	
委托方				
Add. of Client 委托方地址				
Samples Description 样品名称	Polymer Lithium-ion Cell 聚合物锂离子电芯			
Model 型号	606090	G		
Testing Laboratory	Shenzhen TCT Testing T 深圳市通测检测技术有限			
测试机构	1F, Building 1, Yibaolai Iı District, Shenzhen, Guar 中国广东省深圳市宝安区	gdong, China	/illage, Fuyong Town, Bad 栋 1 楼	ban
Report No. 报告编号	TCT161227B013			
Issued Date 发行日期	Jan. 06, 2017			
	结论: onclusion of test repor ngs to quote For the R		备案件.	
	En 1 Amar Jana		HSTING TECHNOR	
Tested by 主检人:	an wing wing	Approved by 批准人		-
Inspected by 审核人:	7712 1 1 10	Seal of TCT 报告单		
mapecieu by 甲核八.	· · · · · · · · · · · · · · · · · · ·	Cear OF ICT 3K日平1		_

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Product Name 产品名称		.ithium-ion Cell 锂离子电芯	Sample Model 样品型号	6060	90
Manufacturer 制造商	USC056				
Address 地址		C.			
Trade Mark 商标		Shape 形状	Prismatic 棱形	Size 尺寸 (L×W×T)	(90.5×62.02 6.2)mm
Nominal Voltage 标称电压	3.7V	Rated Capacity 额定容量	4000mAh 14.8Wh	Limited Charge Voltage 充电限制电压	4.23V
Standard Charge Current 标准充电电流	2000mA	Maximum Continuous Charge Current 最大持续充电 电流	94000mA	End Charge Current 结束充电电流	40mA
Cut-off Voltage 放电截止电压	3.0V	Standard Discharge Current 标准放电电流	800mA	Maximum Discharge Current 最大放电电流	4000mA
Cells Number 电芯数量		1PCS	Cell Model 电芯型号	6060	90
Receiving Date 接收日期	20*	15-12-16	Completing Date 完成日期	2015-12	2-31
(ST/SG/AC.10	tions on the Tran /11/Rev.5 Section 色险货物运输的委 em 测试项	ulation 高度模拟	T/SG/AC.10/11/F 逐正 1 和修正 2,第 T.5. 区Extern T.6. 囗Impac	Rev.5 Section 38.3/A	短路



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%

Leakage means the visible escape of electrolyte or other material from a cell or battery or the loss of material (except battery casing, handling devices or labels) from a cell or battery such that the loss of mass exceeds the values in Table above.

渗漏系指可以看到的电解液或者其他物质从电芯或者电池中漏出,或电芯或电池中的物质损失(不包括电池外壳、搬运装置、或标签),失去的质量超过上表所列的数值。

In test T.1 to T.4, cells and 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 cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

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,并且每个试验电芯或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%.

T.1. Altitude simulation 高度模拟

TCT通测检测 TCT通测检测

Test method 测试方法

Batteries are stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature (20 \pm 5°C).

试验电池被放置在压力等于或低于 11.6 kPa 和环境温度(20±5℃)下存放至少 6 小时。

Requirement 要求

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.

电池须无渗漏、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%**。

T.2. Thermal test 温度试验

Test method 测试方法

Batteries are to be stored for at least six hours at a test temperature equal to 72 \pm 2°C, followed by storage for at least six hours at a test temperature equal to -40 \pm 2°C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated 10 times, after which all test batteries are to be stored for 24 hours at ambient temperature (20 \pm 5°C).

电池放置在试验温度等于 72±2℃的条件下存放至少 6 小时,接着再在试验温度等于-40±2℃的条件下存放至少 6 小时。两个极端试验温度之间的最大时间间隔为 30 分钟。此程序重复进行,共完成 10 次,接着将所有试验电池在环境温度(20±5℃)下存放 24 小时。

Requirement 要求

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.

电池须无渗漏、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%**。

T.3. Vibration 振动

Test method 测试方法

Batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration. The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face.

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 50 Hz). A peak acceleration of 8 gn is then maintained until the frequency is increased to 200 Hz.

电池紧固于振动台台面,但不得造成电池变形,并能准确可靠地传播振动。振动应是正弦波形,对数扫 描频率在 7 Hz 和 200 Hz 之间,再回到 7 Hz,1 次循环时间为 15 分钟。这一振动过程须对三个互相垂直的 电池安装方位的每一方向重复进行 12 次,总共为时 3 小时。其中一个振动方向必须与端面垂直。

对数扫频方式:从 7 Hz 开始,保持 1 gn 的最大加速度,直到频率达到 18 Hz。然后将振幅保持在 0.8mm (总位移 1.6mm),并增加频率直到峰值加速度达到 8 gn (频率约为 50 Hz)。将峰值加速度保持在 8 gn 直到频率增加到 200 Hz。

Report No. 报告编号: TCT	61227B013	Pa	age 4 of 16 第 4 页共 16 页
Hotline: 400-6611-140	Tel: 86-755- 27673339	Fax: 86-755-27673332	http://www.tct-lab.com

Requirement 要求

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.

电池须无渗漏、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%。

T.4. Shock 冲击

Test method 测试方法

Batteries are secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each battery is subjected to a half-sine shock of peak acceleration of 150 gn and pulse duration of 6 milliseconds. Each battery is subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the battery for a total of 18 shocks.

试验电池用刚性支架紧固在试验装置上,支架支撑着每个试验电池组的所有安装面。每个电池须经受峰值加速度 150 gn 和脉冲持续时间 6 ms 的半正弦波冲击。每个电池须在三个互相垂直的电池安装方位的正方向经受三次冲击,接着在反方向经受三次冲击,总共经受 18 次冲击。

Requirement 要求

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.

电池须无渗漏、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%。

T.5. External short circuit 外部短路

Test method 测试方法

Batteries to be tested are temperature stabilized so that its external case temperature reaches 55 \pm 2 °C and then the battery are subjected to a short circuit condition with a total external resistance of less than 0.1 ohm at 55 \pm 2°C. This short circuit condition is continued for at least one hour after the battery external case temperature has returned to 55 \pm 2°C. The battery is observed for a further six hours for the test to be concluded.

试验电池在测试温度下放置至稳定状态,使其外壳温度达到 55±2℃,然后使电池在 55±2℃下经受总外 电阻小于 0.1Ω 的短路条件。短路测试持续到电池外壳温度回到 55±2℃后继续至少 1 小时。试验电池被观察 6 小时再下结论。

Requirement 要求

Batteries meet this requirement if their external temperature does not exceed 170° C and there is no disassembly, no rupture and no fire within six hours after test.

电池外壳温度不超过 170℃,并且在试验过程中及试验后 6 小时内无解体、无破裂,无起火。

T.6. Impact / Crush 重物冲击/挤压

Test method – Impact (applicable to cylindrical cells not less than 18.0 mm in diameter) 测试方法 – 重物冲击(适用于直径大于等于 18.0 毫米以上的圆柱形电池)

The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm \pm 0.1mm diameter, at least 6 cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A 9.1 kg \pm 0.1 kg mass is to be dropped from a height of 61 \pm 2.5 cm at the intersection of the bar and sample in a controlled manner using a near frictionless, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or

Channel used to guide the falling mass shall be oriented 90 degrees from the horizontal supporting surface. The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8 mm \pm 0.1mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.

试样电池或电池组放在平坦光滑表面上。一根 316 型不锈钢棒横放在试样中心,钢棒直径 15.8 毫米±0.1 毫米,长度至少 6 厘米,或电池最长短的尺度,取二者之长者。将一块 9.1 千克±0.1 千克的重锤从 61±2.5 厘 米高度跌落到钢棒和试样交叉处,使用一个几乎没有摩擦的、对落体重锤阻力最小的垂直轨道或管道加以控 制。

垂直轨道或管道用于引导落锤沿与水平撑表面程 90 度落下。受撞击的试样,纵轴应于平坦表面平行并与横放在试样中心的直径 15.8±0.1 毫米弯曲表面的纵轴垂直。每一试样只经受一次撞击。

Test method – Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18.0 mm in diameter)

测试方法 - 挤压(适用于棱形,袋,硬币/纽扣电池和圆柱形电池直径小于 18.0 毫米)

A component cell is to be crushed between two 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.

- (a) The applied force reaches 13 kN \pm 0.78 kN;
- (b) The voltage of the cell drops by at least 100 mV; or
- (c) The cell is deformed by 50% or more of its original thickness.

Once the maximum pressure has been obtained, the voltage drops by 100 mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.

A prismatic or pouch cell shall be crushed by applying the force to the widest side.

Each component cell is to be subjected to one crush only. The test sample shall be observed for a further 6 h. The test shall be conducted using component cells that have not previously been subjected to other tests.

将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 cm/s。挤压持续进行,直到出现以下三种情况之一:

(a)施加的力量达到 13 kN ± 0.78 kN;

(b)电芯的电压下降至少 100mV; 或

(c)电芯形变达原始厚度的 50%或更多。

一旦达到最大压力、电压下降 100mV 或更多,或电芯形变至少达原厚度的 50%,即可解除压力。

棱柱形或袋装电池须从最宽的面施压。

每个试样电芯只做一次挤压试验。试样须继续观察6小时。试验须使用之前未做过其他试验的电芯进行。

Requirement 要求

Component cells meet this requirement if their external temperature does not exceed 170° C and there is no disassembly and no fire within six hours after the test.

电芯外壳温度不超过 170℃,并且在试验过程中及试验后 6 小时内无解体,无起火。

T.7. Overcharge 过充电

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test method 测试方法

The charge current is twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows:

(a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test is the lesser of two times the maximum charge voltage of the battery or 22V.

Tests are to be conducted at ambient temperature. The duration of the test shall be 24 hours. 充电电流为制造商建议的最大持续充电电流的两倍。试验的最小电压如下:

(a) 制造商建议的充电电压不大于 18 伏时,试验的最小电压应是电池组最大充电电压的两倍或 22 伏两 者中的较小者。试验应在环境温度下进行。进行试验的时间应为 24 小时。

Requirement 要求

Batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

电池在试验过程中和试验后7天内无解体,无起火。

T.8. Forced discharge 强制放电

Test method 测试方法

Each component cell is forced discharged at ambient temperature by connecting it in series with a 12V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer.

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 is forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).

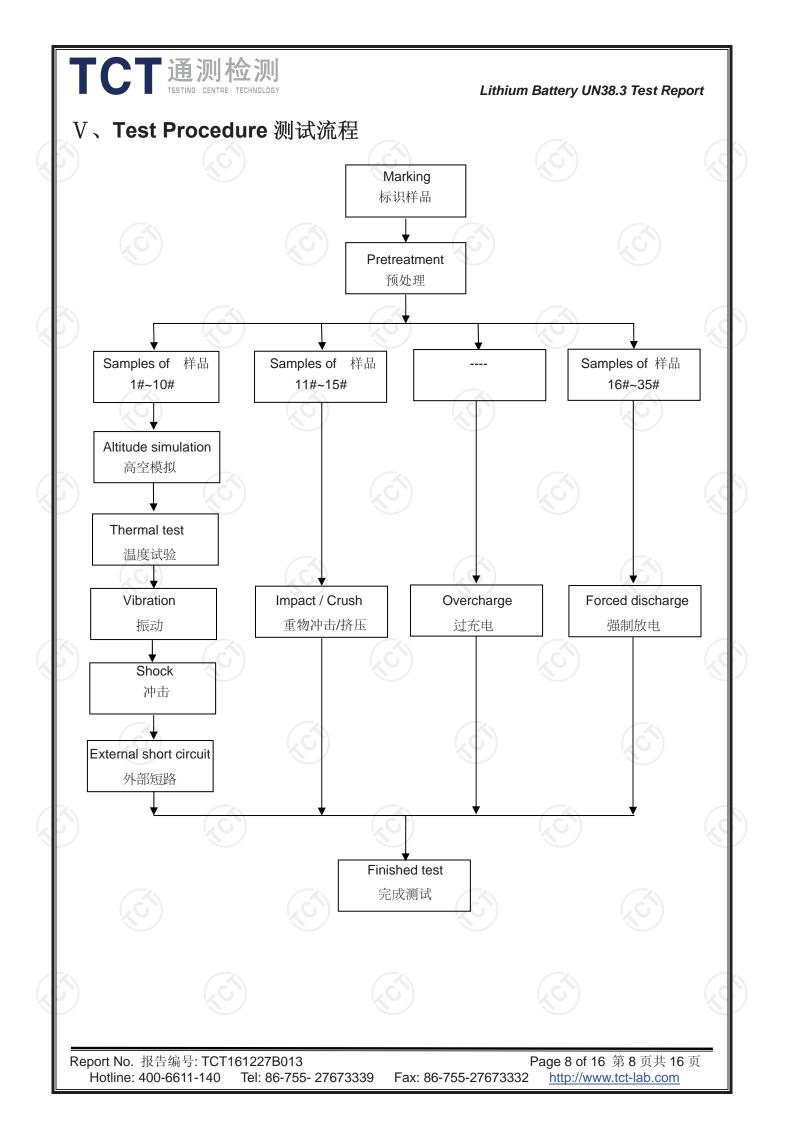
每个电芯在环境温度下与 12V 直流电电源串联在起始电流等于制造商给定的最大放电电流的条件下强制放电。

电芯与一个适当大小的电阻负载串联以调节到规定大小的放电电流。每块电芯的放电时间(单位为h)等于电芯的额定容量除以试验初始放电电流(单位A)。

Requirement 要求

Component cells meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

电芯在试验过程中和试验后7天内无解体,无起火。





TCT通测检测 TESTING CENTRE TECHNOLOGY VII、Test Data 测试数据

Lithium Battery UN38.3 Test Report

T.1. Altitude simulation 高度模拟

The		Pre-tes	it 试验前	After te:	st 试验后	Mass	Voltage after	(
state of cells 样品状态	No. 编号	Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)	loss 质量损失 (%)	test/Voltage pre-test 试验后电压/试 验前电压(%)	Status 结果
Ř	1#	69.300	4.19	69.293	4.19	0.01	100.0	Pass 合格
	2#	68.850	4.19	68.842	4.19	0.01	100.0	Pass 合格
Full charged	3#	67.680	4.19	67.673	4.19	0.01	100.0	Pass 合格
after one	4#	67.810	4.19	67.802	4.19	0.01	100.0	Pass 合格
cycle 一次循环	5#	67.560	4.19	67.552	4.19	0.01	100.0	Pass 合格
万循环	6#	68.020	4.19	68.013	4.19	0.01	100.0	Pass 合格
态	7#	67.650	4.19	67.644	4.19	0.01	100.0	Pass 合格
	8#	69.000	4.19	68.992	4.19	0.01	100.0	Pass 合格
	9#	67.990	4.19	67.985	4.19	0.01	100.0	Pass 合格
	10#	68.020	4.19	68.013	4.19	0.01	100.0	Pass 合格

Notes 注释: Atmospheric pressure 大气压强:1.013×10⁵Pa, Ambient temperature 环境温度: 23.5℃ After the test, there is no leakage, no venting, no disassembly, no rupture and no fire. 测试后,电池未渗漏、未泄气、未解体、未破裂和未起火。

T.2. Thermal test 温度试验

The		Pre-tes	t 试验前	After te	st 试验后	Mass	Voltage after	
state of cells 样品状态	编号	Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)	loss 质量损失 (%)	test/Voltage pre-test 试验后电压/试 验前电压(%)	Status 结果
	1#	69.293	4.19	69.273	4.19	0.03	100.0	Pass 合格
	2#	68.842	4.19	68.825	4.19	0.02	100.0	Pass 合格
Full charged	3#	67.673	4.19	67.651	4.19	0.03	100.0	Pass 合格
after one		67.802	4.19	67.775	4.19	0.04	100.0	Pass 合格
cycle	5#	67.552	4.19	67.533	4.19	0.03	100.0	Pass 合格
一次循环 后满电状	6#	68.013	4.19	67.990	4.19	0.03	100.0	Pass 合格
态	. 7#	67.644	4.19	67.621	4.19	0.03	100.0	Pass 合格
, , ,	8#	68.992	4.19	68.964	4.19	0.04	100.0	Pass 合格
	9#	67.985	4.19	67.963	4.19	0.03	100.0	Pass 合格
	10#	68.013	4.19	67.988	4.19	0.04	100.0	Pass 合格
Notes 注		ne test, the		kage, no ve	enting, no d	isassembly,	erature 环境温度: no rupture and no	

T.3. Vibration 振动

TCT 通测检测 TESTING CENTRE TECHNOLOGY

The		Pre-test 试验前		After tes	After test 试验后		Voltage after	
state of cells 样品状态	No. 编号	Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)	loss 质量损失 (%)	test/Voltage pre-test 试验后电压/试 验前电压(%)	Status 结果
	1#	69.273	4.19	69.267	4.19	0.01	100.0	Pass 合格
	2#	68.825	4.19	68.818	4.19	0.01	100.0	Pass 合格
Full charged	3#	67.651	4.19	67.644	4.19	0.01	100.0	Pass 合格
after one	4#	67.775	4.19	67.767	4.19	0.01	100.0	Pass 合格
cycle一次循环	5#	67.533	4.19	67.525	4.19	0.01	100.0	Pass 合格
一次循环 后满电状	6#	67.990	4.19	67.985	4.19	0.01	100.0	Pass 合格
态	7#	67.621	4.19	67.613	4.19	0.01	100.0	Pass 合格
, i	8#	68.964	4.19	68.957	4.19	0.01	100.0	Pass 合格
	9#	67.963	4.19	67.957	4.19	0.01	100.0	Pass 合格
	10#	67.988	4.19	67.982	4.19	0.01	100.0	Pass 合格

Lithium Battery UN38.3 Test Report

Notes 注释: Atmospheric pressure 大气压强:1.013×10⁵Pa, Ambient temperature 环境温度: 23.3℃ After the test, there is no leakage, no venting, no disassembly, no rupture and no fire. 测试后,电池未渗漏、未泄气、未解体、未破裂和未起火。

T.4. Shock 冲击

_									
	The		Pre-tes	t 试验前	After tes	st 试验后	Mass	Voltage after	
	state of cells 样品状态	No. 编号	Mass 质量 (g)	Voltage 电压 (V)	Mass 质量 (g)	Voltage 电压 (V)	loss 质量损失 (%)	test/Voltage pre-test 试验后电压/试 验前电压(%)	Status 结果
	(1#	69.267	4.19	69.259	4.18	0.01	100.0	Pass 合格
	(,ć	2#	68.818	4.19	68.811	4.19	0.01	100.0	Pass 合格
	Full charged	3#	67.644	4.19	67.638	4.19	0.01	100.0	Pass 合格
	after one	4#	67.767	4.19	67.760	4.19	0.01	100.0	Pass 合格
	cycle 一次循环	5#	67.525	4.19	67.516	4.19	0.01	100.0	Pass 合格
	 万個小 </td <td>6#</td> <td>67.985</td> <td>4.19</td> <td>67.978</td> <td>4.18</td> <td>0.01</td> <td>100.0</td> <td>Pass 合格</td>	6#	67.985	4.19	67.978	4.18	0.01	100.0	Pass 合格
	态	7#	67.613	4.19	67.607	4.19	0.01	100.0	Pass 合格
		8#	68.957	4.19	68.951	4.19	0.01	100.0	Pass 合格
	Re Co	9#	67.957	4.19	67.950	4.19	0.01	100.0	Pass 合格
		10#	67.982	4.19	67.975	4.19	0.01	100.0	Pass 合格
	Notes 注释	: Atmos	spheric pre	ssure 大气	压强:1.013	×10⁵Pa, A	mbient temp	erature 环境温度:	23.6 ℃
		After 测试后		ere is no lea 渗漏、未泄 [/]			-	, no rupture and no	o fire.

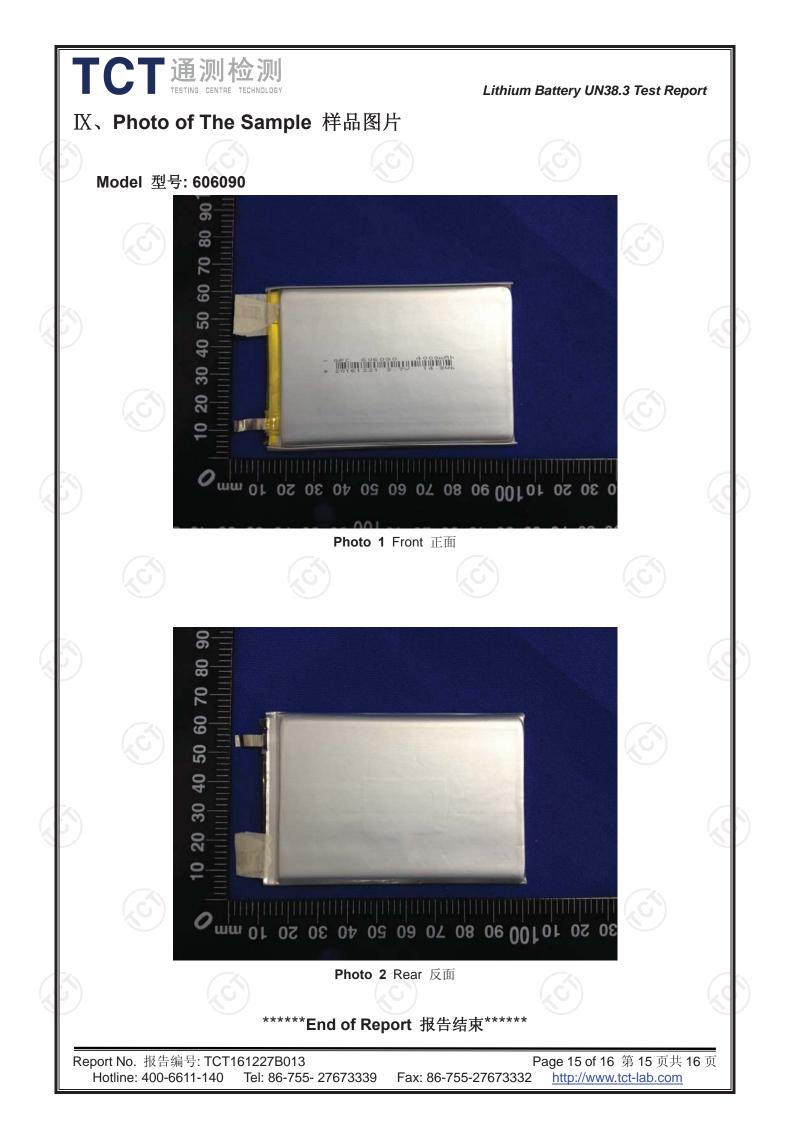
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Lithium Battery UN38.3 Test Report T.5. External short circuit 外部短路 The state of cells External Peak temperature(°C) Status No. 结果 样品状态 编号 电池表面最高温度(℃) Pass 合格 1# 107.9 Pass 合格 2# 119.3 Pass 合格 106.5 3# Pass 合格 4# 112.7 Full charged after one Pass 合格 5# 106.0 cycle 90.4 Pass 合格 6# 一次循环后满电状态 Pass 合格 7# 89.8 Pass 合格 91.7 8# Pass 合格 9# 84.4 10# 88.3 Pass 合格 Notes 注释: Atmospheric pressure 大气压强:1.013×105Pa, Ambient temperature 环境温度: 23.4℃ There is no disassembly, no rupture and no fire within six hours after test. 电池在测试后6小时内未解体、未破裂,未起火。 T.6. Crush 挤压 The state of cells External Peak temperature(°C) Status No. 样品状态 编号 电池表面最高温度(℃) 结果 11# 23.5 Pass 合格 50% charged after 12# 23.5 **Pass** 合格 one cycle 13# 23.5 Pass 合格 一次循环后 50%充电 Pass 合格 状态 14# 23.5 15# 23.5 Pass 合格 Notes 注释: Atmospheric pressure 大气压强:1.013×10⁵Pa, Ambient temperature 环境温度: 23.1℃ There is no disassembly, no rupture and no fire within six hours after test. 电池在测试后6小时内未解体、未起火。 T.7. Overcharge 过充电 (Not Applicable) Report No. 报告编号: TCT161227B013 Page 12 of 16 第 12 页共 16 页 Hotline: 400-6611-140 Tel: 86-755- 27673339 Fax: 86-755-27673332 http://www.tct-lab.com

The state of cells 样品状态	No. 编号	Status 结果
	16#	Pass 合格
	17#	Pass 合格
	18#	Pass 合格
	19#	Pass 合格
Full discharged after one cycle	20#	Pass 合格
一次循环完全放电状态	21#	Pass 合格
	22#	Pass 合格
	23#	Pass 合格
	24#	Pass 合格
	25#	Pass 合格
	26#	Pass 合格
(\mathbf{C})	27#	Pass 合格
	28#	Pass 合格
	29#	Pass 合格
Full discharged after fifty cycles	30#	Pass 合格
50个循环完全放电状态	31#	Pass 合格
	32#	Pass 合格
	33#	Pass 合格
	34#	Pass 合格
	35#	Pass 合格
50 个循环完全放电状态 es 注释: Atmospheric pressure 7 There is no disassembly	30# 31# 32# 33# 34# 35# 大气压强:1.013×10 ⁵ Pa, Amb	Pass 合格 Pass 合格 Pass 合格 Pass 合格 Pass 合格 Pass 合格

TCT 通测检测 TESTING CENTRE TECHNOLOGY Lithium Battery UN38.3 Test Report ₩、Conclusion 结论 Test reference Conclusion No. Test item Sample number 编号 测试项目 样品数量 测试参考 结论 UN Manual of Test and Criteria, Altitude simulation part III, subsection 38.3.4.1 Pass 1 UN 试验和标准手册,第Ⅲ部分,第 高空模拟 合格 38.3.4.1 节 UN Manual of Test and Criteria, Thermal test part III, subsection 38.3.4.2 Pass 2 温度试验 UN 试验和标准手册,第III部分,第 合格 38.3.4.2 节 UN Manual of Test and Criteria, Vibration part III, subsection 38.3.4.3 Pass 3 1#~10# UN 试验和标准手册,第Ⅲ部分,第 振动 合格 38.3.4.3 节 UN Manual of Test and Criteria, Shock part III. subsection 38.3.4.4 Pass 4 冲击 UN 试验和标准手册,第Ⅲ部分,第 合格 38.3.4.4 节 UN Manual of Test and Criteria. External short part III, subsection 38.3.4.5 Pass circuit 5 UN 试验和标准手册,第III部分,第 合格 外部短路 38.3.4.5 节 UN Manual of Test and Criteria. Impact/Crush part III, subsection 38.3.4.6 Pass 6 11#~15# 重物冲击/挤压 UN 试验和标准手册,第Ⅲ部分,第 合格 38.3.4.6节 UN Manual of Test and Criteria. part III, subsection 38.3.4.7 N/A Overcharge 7 过度充电 UN 试验和标准手册,第III部分,第 不适用 38.3.4.7 节 UN Manual of Test and Criteria, Forced discharge part III, subsection 38.3.4.8 Pass 8 16#~35# UN 试验和标准手册,第III部分,第 强制放电 合格 38.3.4.8 节 The submitted samples were complied with the stated requirements of UN manual of test and criteria, part Ⅲ, subsection 38.3 经检测,提交的测试样品均符合 UN38.3 的要求,测试结论为合格。 Report No. 报告编号: TCT161227B013 Page 14 of 16 第 14 页共 16 页 Tel: 86-755- 27673339 Hotline: 400-6611-140 Fax: 86-755-27673332 http://www.tct-lab.com



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