





中国认可 国际互认 检测 TESTING CNAS L5473

UN38.3

Report No.: CESUN201128036

检测报告

TEST REPORT

Name of Sample:	Li-ion Polymer Battery
产品名称 :	锂离子聚合物电池
Model Specification:	
产品型号:	1260110
SECTOR Revenues replies and	Curacian Bandalanda indepensión by actual and an artist
Client: Guangdong	g CVATOP New Energy Technology Co., Ltd.
委托单位 :	一东嘉拓新能源科技有限公司
Classification of Test:	Commission Test
检测类别:	委托检测

先进储能材料国家工程研究中心有限责任公司检测中心

Test Center of National Engineering Research Center of Advanced Energy Storage Materials Co., Ltd. 报告专用章

说明

Marking

1. 报告无"报告专用章"无效。

The test report is invalid without "Special seal for report".

2. 报告无批准人、审核人和主检人签名无效。

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

3. 报告涂改无效。

The test report is invalid if altered.

4. 对检测报告若有异议,应于收到报告之日起十五天内向检测单位提出。

Objections to the test report must be submitted to Test Center within15 days.

5. 报告仅对送检样品负责。

The test report is Valid for the tested samples only.

- 6. 本报告检测结论中"N/A"表示"不适用", "P"表示"符合标准要求", "F"表示"不符合标准要求"。 As for test result, "N/A" means is "not applicable", "P" means "pass", "F" means "fail".
- 7. 未经实验室书面批准,不得部分复制本报告书。

The partial replica of this report is prohibited without the written approval of CES.

检测单位地址:广东省深圳市宝安区新安街道宝石路29号蓝坤集团大厦B栋一楼B102

Lab Address: No.B102, 1/F., Lankun Group Building B, No.29, Baoshi Road, Xin'an Street,

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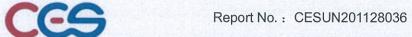
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TEST REPORT

Name of sample 样品名称	Li-ion Po 锂离子聚	lymer Battery 合物电池						
Model /Type 型号规格	1260110 (3.7V 100	000mAh 37Wh)	Size 样品尺寸	110.3mm×60.2mm×12.0mm (L×W×T)				
Appearance 样品外观	Prismatic 棱柱形,	, silver white 银白色	Trade mark 商标	嘉拓®				
Quantity 样品数量	40 cells 40 个电芯	<u> </u>	Mass 样品质量	约/Approx.: 158.5g				
Receiving Date 接样日期	2020-11-	28	Testing Date 测试日期	2020-11-28~2020-12-11				
Client	Name 名称	Guangdong CVATC 广东嘉拓新能源科技		Technology Co., Ltd.				
委托单位	Address 地址	guangdong provinc	ngwei mansion, stone row avenue, shipai town, dongguan city, angdong province 东省东莞市石排镇石排大道永威大厦					
	Name 名称	Guangdong CVATOP New Energy Technology Co., Ltd. 广东嘉拓新能源科技有限公司						
Manufacturer 生产单位	Address 地址	Yongwei mansion, stone row avenue, shipai town, dongguan city, guangdong province 广东省东莞市石排镇石排大道永威大厦						
	Tel. 电话	86-769-82296333	E-mail 邮箱	13602526692@139.com				
	Website 网址	www.cvatop.com.cn						
Tested standard 测试标准	the Trans (ST/SG/A	port of Dangerous G AC.10/11/Rev.6/Amen	oods, Manual of d.1/Section 38.3					
Test conclusion: 检测结论	the TRAN ST/SG/A 经测试,	ISPORT OF DANGE C.10/11/Rev.6/Amend	ROUS GOODS d.1/Section 38.3 《关于危险品货	物运输的建议书 试验和标准手册》				
lssue date 签发日期	2021-01-	06		THE CES H				
Tested by 主检	邻华	了 Reviewed by 审核	对其主	Approved by 批准报告专用章 多字字				
陈其平 Cherry Ch 廖宇平 Richie Lia			chnical Manage eputy Centre Dir					



TEST REPORT

Description and illustration of the sample/样品说明及描述:

The sample is lithium ion cell, and without protective devices, are not subject to the requirements of T7 test. The sample's status is good /样品为锂离子电芯,无保护装置,无须做 T7 测试。样品状况良好。

测试项目及结论/ Test items and conclusion。

Test item 测试项目	Sample No. 样品编号	Verdict 判定						
T.1 Altitude simulation 高度模拟	C1#~C5#, C6#~C10#	Р						
T.2 Thermal test 温度试验	C1#~C5#, C6#~C10#	Р						
T.3 Vibration 振动	C1#~C5#, C6#~C10#	Р						
T.4 Shock 加速度冲击	C1#~C5#, C6#~C10#	Р						
T.5 External Short Circuit 外部短路	C1#~C5#, C6#~C10#	Р						
T.6 Impact /Crush 撞击/挤压	C11#~C15#, C16#~C20#	Р						
T.8 Forced discharge 强制放电	C21# ~ C30#, C31# ~C40#	Р						
Sample pretreatment/样品预处理: C1#~C5#:								

第 1 个充放电周期完全充电状态的电芯。

C6# ~C10#:..... Cells after 25th cycle, in fully charged state.

第25个充放电周期后完全充电状态的电芯。

C11# ~ C15#:..... Cells at first cycle at 50% of the design rated capacity.

第1个充放电周期充电到设计额定容量的50%的电芯。

C16# ~ C20#:..... Cells after 25th cycle at 50% of the design rated capacity.

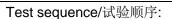
第25个充放电周期后充电到设计额定容量的50%的电芯。

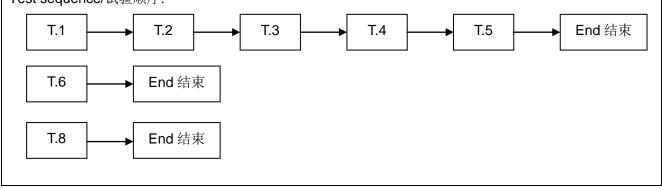
C21# ~ C30#:..... Cells at first cycle, in fully discharged state.

第1个充放电周期完全放电状态的电芯。

C31# ~C40#:..... Cells after 25th cycles, ending in fully discharged state.

第25个充放电周期完全放电状态的电芯。



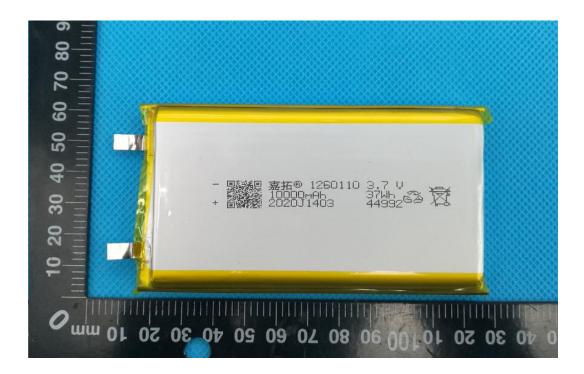


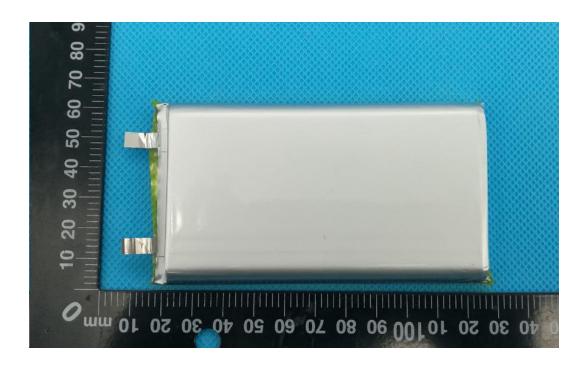




Photos of Samples and Labels/样品照片及标识

Samples /样品(1260110 3.7V 10000mAh 37Wh)







	ST/SG/AC.10/11/Rev.6/ Amend.1/Sec	tion 38.3							
Clause	Requirements	Result	Verdict						
章节	标准要求	测试结果	判定						
38.3.4	Procedure/测试步骤		_						
	Test 1: Altitude simulation/测试 1: 高度模拟								
	Test cells and batteries shall be stored at a pressure of least six hour at ambient temperature (20±5℃)/ 将电池5℃, 压力为不大于 11.6kpa 的环境中贮存不少于 6 个小	也和电池组在温度为 20 ±							
38.3.4.1	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	The samples C1#~C10#: no leakage, no venting, no disassembly, no	P						
	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池组。	rupture and no fire/样品 C1#~C10#: 无渗漏、无 排气、无解体、无破裂 以及无着火现象							
	3. No leakage, no venting, no disassembly, no rupture and no fire /样品(电池)应无渗漏、无排气、无解体、无破裂以及无着火现象的发生。	The test data see table1 /测试数据见表1							
	Test 2: Thermal test/测试 2: 温度试验								
38.3.4.2	Test cells and batteries are to be stored for/电池和电池组存储条件如下: 1.one temperature cycle: 72±2℃(6h) —40±2℃(6h) /一次温度循环为72±2℃(6h)—40±2℃(6h)。 2.The maximum time interval between test temperature extremes is 30 minutes/温度转换最大间隔时间为30min。 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℃)/循环结束后,电池和电池组在20±5℃的条件下搁置24小时。 For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours/对于大型电池和电池组,暴露于极端试验温度的时间至少为12小时。 Requirement/标准要求: 1. Cells and batteries Mass loss limit: ≤0.1 /样品质量								
	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池组。 3. No leakage, no venting, no disassembly, no rupture and no fire /样品(电池)应无渗漏、无排气、无解体、无破裂以及无着火现象的发生。	C1#~C10#: 无渗漏、无 排气、无解体、无破裂 以及无着火现象 The test data see table1 /测试数据见表1							



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	ST/SG/AC.10/11/Rev.6/ Amend.1/Sec	tion 38.3	
Clause	Requirements	Result	Verdict
章节	标准要求	测试结果	判定
38.3.4.3	Test 3: Vibration/测试3: 振动 1. Cells and batteries are firmly secured to the platform /电池和电池组牢固地安装在振动台(的台面)上。 2. The vibration :a sinusoidal waveform with a logarithn and 200Hz and back to 7Hz traversed in 15 minutes/振增加至200Hz,然后再回到7Hz为一个循环,时间跨度分3. The logarithmic frequency sweep is as follows/对数左(1)For cells and small batteries: from 7 Hz a peak a maintained until 18 Hz is reached, The amplitude is the (1.6 mm total excursion) and the frequency increased to 8gn occurs (approximately 50Hz), A peak acceleration maintained until the frequency is increased to 200Hz/对赫兹开始保持1gn的最大加速度直到频率为18赫兹,然后偏移1. 6毫米)并增加频率直到最大加速度达到8gn(频/加速度保持在8gn直到频率增加到200赫兹。 (2) For large batteries: from 7Hz to a peak acceleration maintained until 18Hz is reached. The amplitude is the (1.6 mm total excursion) and the frequency increased to 200Hz/对开始保持1gn的最大加速度直到频率为18赫兹,然后将排移1.6毫米)并增加频率直到最大加速度达到2gn(频率速度保持在2gn直到频率增加到200赫兹。 4.This cycle repeated 12 times for a total of 3 hours for perpendicular mounting position of the cell /振动的其中品极性,对每个电池从三个互相垂直的方向上循环12 次小时。 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池组。 3. No leakage, no venting, no disassembly, no rupture and no fire /样品(电池)应无渗漏、无排气、无解体、无破裂以及无着火现象的发生。	of the vibration machine nic sweep between 7Hz 动以正弦波形式,以7Hz 对15分钟。 加频为: acceleration of 1gn is n maintained at 0.8 mm antil a peak acceleration on of 8gn is then 于电池和小型电池:从7 将振幅保持在0.8毫米(总率约为50赫兹),将最大 ration of 1gn is n maintained at 0.8 mm antil a peak acceleration on of 2gn is then 于大型电池组:从7赫兹。有一个方面的15种位,将最大加 each of three mutually 一个方面必须是垂直于样	· · · · · · · · · · · · · · · · · · ·



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	ST/SG/AC.10/11/Rev.6/ Amend.1/Sec	tion 38.3							
Clause	Requirements	Result	Verdict						
章节	标准要求 测试结果								
	Test 4: Shock/测试 4: 加速度冲击								
	1.Test cells and batteries shall be secured to the testing machine/以稳固的托架固定住每个电池和电池组样品的全部配件表面。 2. Each cell shall be subjected to a half-sine shock of peak acceleration of 150gn and pulse duration of 6 milliseconds. Alternatively, large cells may be subjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds./小型电池须经受峰值为150gn和脉冲持续时间6毫秒的半正弦冲击,大型电池须经受最大加速度50gn和脉冲持续时间11毫秒的半正弦波冲击。3. Small batteries shall be subjected to a half-sine shock of peak acceleration of 150gn (or Acceleration(g_n) = $\sqrt{\frac{100850}{mass}}$, which is smaller)and pulse duration of 6 milliseconds. Large batteries shall be subjected to a half-sine shock of peak acceleration of 50gn (or Acceleration(g_n) = $\sqrt{\frac{30000}{mass}}$, which is smaller)and pulse duration of 11 milliseconds./小型电池须经受峰值为150gn(或与								
38.3.4.4	$\sqrt{\frac{100850}{mass}}$ 中的较小值)和脉冲持续6毫秒的半正弦波冲击,大型电池组须经受最大加速度 $\sqrt{\frac{30000}{mass}}$ 中较小值)和脉冲持续时间 $\sqrt{\frac{30000}{mass}}$								
	冲击。 3 .Each cell or battery shall be subjected to three shock followed by three shocks in the negative direction of the perpendicular mounting positions of the cell or battery for 个电池或电池组须在三个互相垂直的电池安装方位的正式在反方向经受三次冲击,总共经受18次冲击。	ee mutually or a total of 18 shocks/每 方向经受三次冲击,接着							
	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池组。 3. No leakage, no venting, no disassembly, no rupture and no fire /样品(电池)应无渗漏、无排气、无解体、无破裂以及无着火现象的发生。 The samples C1#~C10#: Acceleration=150gn No leakage, no venting no disassembly, no rupture and no fire/样品 生殖加速度=150gn 无渗漏、无排气、无解体、无破裂以及无着火现象的发生。 现象。The test data set table1 /测试数据见表1								



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	ST/SG/AC.10/11/Rev.6/ Amend.1/Sec	tion 38.3						
Clause	Requirements	Result	Verdict					
章节	标准要求	测试结果	判定					
38.3.4.5	1.The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches 57±4℃/保持试验环境温度稳定在57±4℃, 以使电池或电池样品外表温度稳定达到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℃, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57±4℃, or in the case of the large batteries, has decreased by half of the maximum temperature increase observed during the test and remains below that value/将电池或电池正负极用小于0.1Ω的总电阻回路进行短路,电池或电池的外表温度恢复到57±4℃之后保持短路状态1小时以上,对于大型电池组其外壳温度下降至最大温升的一半即可。 3. the cell or battery must be observed for a further six hour for the test to be concluded/对电池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/在测试过程中以及之后6个小时内,电池或电池组样品: 1. External temperature not exceed 170℃/外表温度 C1#~C10#: 无解体、无 破裂以及无着火现象 The test data see							
	破裂和无着火现象发生。 Test 6: Impact / Crush / 测试 6: 撞击/挤压	table1 /测试数据见表 1	Р					
38.3.4.6	Impact (applicable to cylindrical cells not less than 18m 用于直径不小于18毫米的圆柱形电池) 1. This test sample cell or component cell is to be place surface/将试验样品用的电池或组件电池放在一个平坦光2. A 15.8±0.1mm diameter, at least 6 cm long, or the locell, whichever is greater, type 316 stainless bar is to be center of the sample, A 9.1kg mass is to be dropped froat the intersection of the bar and sample in a controlled frictionless, vertical sliding track or channel with minima mass. The vertical track or channel used to guide the faoriented 90 degrees from the horizontal supporting surf棒横过电池中部放置,钢棒的直径为15.8毫米±0.1毫米电池最长端的长度,取二者之长着。将一质量为9.1千克2.5厘米的高度落向钢棒与试样的交叉处,使用一个几乎没阻力最小的垂直轨道或管道加以控制。垂直轨道或管道,撑表明呈90度落下。 3. The test sample is to be impacted with its longitudinal	ed on a flat smooth 清別的平面上。 Ingest dimension of the e placed across the om a height of 61±2.5cm manner using a near all drag on the falling falling mass shall be ace /将一根316型不锈钢,长度至少为6厘米,或±0.1千克的重锤从61±2有摩擦的、对落体重锤用于引导落锤沿与水平支	N/A					



	ST/SG/AC.10/11/Rev.6/ Amend.1/Sec	ction 38.3						
Clause	Requirements	Result	Verdict					
章节	标准要求	测试结果	判定					
	surface and perpendicular to the longitudinal axis of th	e 15.8 mm ± 0.1mm						
	diameter curved surface lying across the centre of the	test sample. Each sample						
	is to be subjected to only a single impact/接受撞击的记	(样,纵轴应与平坦的表面						
	平行并与横放在试样中心的直径15.8±0.1毫米弯曲表面	而的纵轴垂直。每一个试样						
	只经受一次撞击。	Г						
	Requirements/标准要求:							
	1. Cells external temperature not exceed 170℃/电池							
	的最高表面温度应不超过170℃。 2 .No disassembly, no rupture and no fire within six		NI/A					
	hours of this test./试验结束后6 个小时之内,电池应无		N/A					
	解体和无着火现象发生。							
	Crush (applicable to prismatic, pouch, coin/button cell	l s and cylindrical cells less						
	than 18mm in diameter)/挤压(适用于棱柱形、袋装、	硬币/纽扣电池和直径小于						
	18毫米的圆柱形电池)							
	A cell or component cell is to be crushed between two flat surfaces. The							
	crushing is to be gradual with a speed of approximatel	y 1.5cm/s at the first point						
	of contact. The crushing is to be continued until the first of the three options							
	below is reached/将电池或元件电池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:							
	(a) The applied force reaches 13kN ± 0.78kN /施加的フ	力达到13千牛±0.78千牛						
	(b) The voltage of the cell drops by at least 100mV/电池	也的电压下降至少100毫伏						
38.3.4.6	(c) The cell is deformed by 50% or more of its original thickness/电池变形达原始厚度的50%以上。							
	2. A prismatic or pouch cell shall be crushed by applying	•						
	side. A button/coin cell shall be crushed by applying the							
	棱柱形或袋装电池应从最宽的一面施压。纽扣/硬币形电 圆柱形电池应从与纵轴垂直的方向施压。	己 他应从共于坦衣囬施压。						
		The commiss						
	Requirements/标准要求: 1. Cells external temperature not exceed 170℃/电池	The samples C11#~C20#: no						
	的最高表面温度应不超过170℃。	disassembly and no fire/						
	2.No disassembly, no rupture and no fire within six	样品C11#~C20#: 无解						
	hours of this test/试验结束后6个小时之内,电池应无	体、无着火现象						
	解体和无着火现象发生。	The test data see table2						
		/测试数据见表2						
	Test 7: Overcharge/测试 7: 过充电							
20.0.1.	1. The charge current shall be twice the manu		N1/A					
38.3.4.7	maximum continuous charge current/以2倍制造厂推着	岁 的最大持续充电电流对样	N/A					
	品充电							
	2 .The minimum voltage of the test shall be as follows/	本测试最小电压为:						



	ST/SG/AC.10/11/Rev.6/ Amend.1/Sec	tion 38.3				
Clause	Requirements	Result	Verdict			
章节	标准要求	测试结果	判定			
38.3.4.7	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 be1.2 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。c)Tests are to be conducted at ambient temperature 20±5℃, The duration of the test shall be 24 hours/20 ±5℃的环境温度下,试验持续24小时。		N/A			
	Requirements/标准要求: No disassembly and no fire within seven days of this test/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。					
	Test 8: Forced discharge/测试 8: 强制放电					
38.3.4.8	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12 V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer/20±5℃的环境温度下,将单个电池连接在12V 的直流电源上进行强制放电,此直流电源提供给每个电池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池上的合适大小和功率的负载来获得,每个电池的强制放电时间(小时)为额定容量除以					
	初始电流(安培)。 Requirements/标准要求: No disassembly and no fire within seven days of this test/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。	The samples C21#~C40#: no disassembly and no fire /编号为C21#~C40#无 解体、无着火现象 The test data see table3 /测试数据见表3				



	Table1: T1~T5 / 表1: 试验1~试验5										
项	Ħ	C1#	C2#	C3#	C4#	C5#	C6#	C7#	C8#	C9#	C10#
OCV prior to test 试验前电压(V)		4.171	4.172	4.174	4.169	4.168	4.172	4.170	4.169	4.172	4.171
Mass prid		158.42	157.82	156.82	158.22	157.96	158.27	157.33	157.24	158.53	158.42
试验前师	质量(g)	6	4	3	4	4	5	8	6	3	0
Test 1: Altitude Simulation	Mass loss 质量损失 (%)	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001
测试1:高度模拟	Change ratio 电压比 (%)	100	99.952	100	100	99.952	99.952	100	99.952	99.952	99.952
Test 2: Thermal	Mass loss 质量损失 (%)	0.019	0.013	0.015	0.015	0.022	0.013	0.021	0.015	0.015	0.021
test 测试 2: 温 度试验	Change ratio 电压比 (%)	99.041	98.609	98.706	98.633	98.608	98.969	98.945	98.584	98.993	98.945
Test 3: Vibration	Mass loss 质量损失 (%)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	Change ratio 电压比 (%)	99.952	100	100	99.951	99.951	99.976	99.952	99.951	100	99.952
Test 4: Shock	Mass loss 质量损失 (%)	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000
测试 4: 加速度冲击	Change ratio 电压比 (%)	99.976	100	99.976	99.976	100	99.976	99.976	100	100	100
Test 5:External Short Circuit 测试 5 外 接短路	Temp, (℃) 温度 (℃)	99.6	95.8	94.2	103.4	102.4	91.2	96.4	95.6	92.0	106.4



	Table2: ☐ Impact 撞击/ ☑Crush 挤压												
Test 6: ☐ Impact 撞击/ ☑ Crush 挤压	Sample No, 样品号	C11#	C12#	C13#	C14#	C15#	C16#	C17#	C18#	C19#	C20#		
	OCV prior to test 试验前电压(V)	3.782	3.782	3.782	3.784	3.784	3.783	3.782	3.782	3.785	3.784		
	Temp, (℃) 温度 (℃)	22.6	22.6	22.8	22.6	22.7	22.7	22.7	22.8	22.6	22.8		

	Table 3: Forced discharge / 表 3: 强制放电											
Test 8:	Sample No, 样品号	C21#	C22#	C23#	C24#	C25#	C26#	C27#	C28#	C29#	C30#	
	OCV prior to test 试验前电压(V)	3.297	3.256	3.228	3.265	3.244	3.259	3.264	3.271	3.236	3.220	
discharge 测试8: 强 制放电	Sample No, 样品号	C31#	C32#	C33#	C34#	C35#	C36#	C37#	C38#	C39#	C40#	
制 放电	OCV prior to test 试验前电压(V)	3.277	3.228	3.217	3.243	3.289	3.261	3.236	3.244	3.252	3.261	

⁻⁻ End of Report --