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CMA 160008222171

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中国认可
国际互认
检测
TESTING
CNAS L0095

No. : [redacted]

检 测 报 告
TEST REPORT

UN38.3

NAME OF SAMPLE: Lithium-ion Rechargeable Cell
产品名称： 锂离子可充电电芯

CLIENT: [redacted]
委托单位：

CLASSIFICATION OF TEST: Commission Test
检测类别： 委托测试

威凯检测技术有限公司
Vkan Certification & Testing Co., Ltd.

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检 测 报 告
TEST REPORT

No.: [redacted]

Name of samples: Lithium-ion Rechargeable Cell 样品名称:锂离子可充电电芯	Type/Model: 型号规格: FST 18650-2500mAh 3,6V 2500mAh 9,0 Wh
Appearance: Purple 样品外观颜色:紫色	Trade mark: 商标：-
Commissioned by: [redacted]	Manufacturer: [redacted]
Commissioner address: [redacted]	Manufacturer address: [redacted]
Classification of test: Commission Test 检测类别: 委托测试	Quantity of sample: 35 cells 样品数量: 35 个电芯
Tested according to: 测试标准: ST/SG/AC.10/11/Rev.6/Section 38.3	Sample identification: 样品标识序号: c1#~c35#
Receiving date: 接样日期：2017-10-19	Means of receiving: [redacted]
Completing date: 完成日期：2017-11-06	Test item: 7 items 测试项目：7 项

Test conclusion:
检测结论:

The Lithium-ion Rechargeable cells [redacted] are tested according to Section 38.3 of the sixth Revised Edition of the Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.6/Section 38.3). The test items are full items. The test results comply with the relevant requirements of the standard.

[redacted]

Seal of CVC
CVC 印章

Date of issue: 2017-11-6
签发日期:

Approved by: 批准：

Reviewed by: 审核：

Tested by: 检测：

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

The sample's status is good
样品状况良好。

Test item 测试项目	Sample No. 样品编号	State 状态	Remark 备注
T.1~T.5	c1#~c10#	at first cycle, in fully charged state 第一个交替充电放电周期完全充电状态	-
T.6	c11#~c15#	at first cycle at 50% of the design rated capacity 第一个交替充电放电周期充电到设计额定容量的 50%	-
T.8	c16#~c25#	at first cycle, in fully discharged state 第一个交替充电放电周期完全放电状态	-
	c26#~c35#	after fifty cycles ending in fully discharged state 第五十个交替充电放电周期完全放电状态	-

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：

Throughout this report a comma is used as the decimal separator.
本报告中以逗号代替小数点。

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Photos of Samples and Labels/样品照片及标识

Cell/电芯（FST 18650-2500mAh 3,6V 2500mAh 9,0 Wh）

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ST/SG/AC.10/11/Rev.6/Section 38.3			
Clause 章节	**Requirements 标准要求**	**Result 测试结果**	**Verdict 判定**
38.3.4	**Procedure/测试步骤**		—
38.3.4.1	**Test 1: Altitude simulation/测试 1：高度模拟**		**P**
	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℃)/ 将电芯和电池在温度为 20±5℃，大气压力为不大于 11,6kpa 的环境中贮存不少于 6 个小时		
	Requirement/标准要求： 1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2% 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（电池）应无漏液、无排气、无解体、无破裂以及无着火现象的发生	The samples c1#~c10# : No leakage, no venting, no disassembly, no rupture and no fire/ 编号为 c1#~c10#的样品：无漏液、无排气、无解体、无破裂以及无着火现象 The data see table1/数据见表 1	
38.3.4.2	**Test 2: Thermal test/测试 2: 热冲击**		**P**
	Test cells and batteries are to be stored for/电池存储条件如下： 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，电池在 20±5℃的条件下 搁置 24 小时.		
	Requirements/标准要求 1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2% 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（电池）应无漏液、无排气、无解体、无破裂以及无着火现象的发生	The samples c1#~c10# : No leakage, no venting, no disassembly, no rupture and no fire/ 编号为 c1#~c10#的样品：无漏液、无排气、无解体、无破裂以及无着火现象 The data see table1/数据见表 1	

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ST/SG/AC.10/11/Rev.6/Section 38.3			
Clause **章节**	**Requirements** **标准要求**	**Result** **测试结果**	**Verdict** **判定**
38.3.4.3	**Test 3: Vibration/测试 3: 振动** 1 Cells and batteries are firmly secured to the platform of the vibration machine /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。 4This 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。		**P**
	Requirements/标准要求 1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2% 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（电池）应无漏液、无排气、无解体、无破裂以及无着火现象的发生	The samples c1#~c10# : No leakage, no venting, no disassembly, no rupture and no fire/编号为 c1#~c10#的样品：无漏液、无排气、无解体、无破裂以及无着火现象 The data see table1/数据见表 1	

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ST/SG/AC.10/11/Rev.6/Section 38.3			
Clause **章节**	**Requirements** **标准要求**	**Result** **测试结果**	**Verdict** **判定**
38.3.4.4	**Test 4: Shock/测试 4: 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芯和电池样品的全部配件表面。 2 Each cell shall be subjected to a half-sine shock of peak acceleration of 150 g_n and pulse duration of 6 milliseconds. Large cells may be subjected to a half-sine shock of peak acceleration of 50 gn and pulse duration of 11 milliseconds. / 对每个电芯以峰值为 150g_n 的半正弦的加速度撞击，脉冲持续 6 毫秒，大型电芯须经受最大加速度 50g_n 和脉冲持续时间 11 毫秒的半正弦波冲击。 Small batteries shall be subjected to a half-sine shock of peak acceleration of 150 g_n (or Acceleration(g_n)= $\sqrt{\left(\frac{100850}{mass}\right)}$, which is smaller) and pulse duration of 6 milliseconds, large batteries shall be subjected to a half-sine of peak acceleration of 50 g_n (or Acceleration(g_n)= $\sqrt{\left(\frac{30000}{mass}\right)}$, which is smaller) and pulse duration of 11 milliseconds/对每个电池以峰值为 150g_n（或与 $\sqrt{\left(\frac{100850}{mass}\right)}$ 中的较小值）的半正弦的加速度撞击，脉冲持续 6 毫秒，大型电池组须经受最大加速度 50g_n（或与 $\sqrt{\left(\frac{30000}{mass}\right)}$ 中的较小值）和脉冲持续时间 11 毫秒的半正弦波冲击。 3 Each cell or battery shall be subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks/每个电池或电池组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。		**P**
	Requirements/标准要求： 1 Cells and batteries Mass loss limit: ≤0,2% /样品质量损失≤0,2% 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（电池）应无漏液、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/编号为 c1#~c10#的样品： 峰值加速度= 150gn 无漏液、无排气、无解体、无破裂以及无着火现象 The data see table1/数据见表 1	

ST/SG/AC.10/11/Rev.6/Section 38.3			
Clause **章节**	**Requirements** **标准要求**	**Result** **测试结果**	**Verdict** **判定**
38.3.4.5	**Test 5: External Short Circuit/测试 5 :外部短路** 1The 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℃, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57±4℃/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。		**P**
	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，电芯或电池样品 1. External temperature not exceed 170℃ 外表温度不超过 170℃ 2. No disassembly, no rupture and no fire. 无解体、无破裂和无着火现象发生。	The samples c1#~c10# : no disassembly, no rupture and no fire/编号为 c1#~c10#的样品：无解体、无破裂以及无着火现象 The data see table1/数据见表 1	

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ST/SG/AC.10/11/Rev.6/Section 38.3			
Clause **章节**	**Requirements** **标准要求**	**Result** **测试结果**	**Verdict** **判定**
38.3.4.6	**Test 6: Impact / Crush / 测试 6: 撞击/挤压**		**P**
	Impact (applicable to cylindrical cells not less than 18mm in diameter) / 撞击（适用于直径不小于 18 毫米的圆柱形电池）		**P**
	1 This test sample cell or component cell is to be placed on a flat smooth surface/ 将试验样品用的电芯或聚合物电芯放在一个平坦光滑的平面上 2 A 15,8 mm 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 的横木横过电池中部放置后，将一质量为 9,1kg 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 15,8 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 15,8±0,1 毫米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： 1 Cells external temperature not exceed 170℃.电芯或电池的最高表面温度应不超过 170℃ 2 No disassembly, no fire within six hours of this test 试验结束后 6 个小时之内，电芯和聚合物电芯应无解体和无着火现象发生	The samples c11#~c15#: no disassembly and no fire/ 编号为 c11#~c15#的样品：无解体、无着火现象 The data see table2/数据见表 2	
	Crush (applicable to prismatic, pouch, coin/button cells 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）		**N/A**
	1 A cell or 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. / 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 13 kN ± 0,78 kN. / 施加的力达到 13 千牛±0,78 千牛 (b) The voltage of the cell drops by at least 100 mV,/电池的电压下降至少 100 毫伏 (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 the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis. /棱柱形或袋装电池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。圆柱形应从与纵轴垂直的方向施压。		
	Requirements/标准要求： 1 Cells external temperature not exceed 170℃.电芯或电池的最高表面温度应不超过 170℃ 2 No disassembly, no fire within six hours of this test 试验结束后 6 个小时之内，电芯和聚合物电芯应无解体和无着火现象发生	-	

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Clause 章节	**Requirements 标准要求**	**Result 测试结果**	**Verdict 判定**
38.3.4.7	**Test 7: Overcharge/测试 7: 过充电**		**N/A**
	1 The charge current shall be twice the manufacturer's recommended maximum continuous charge current/以 2 倍制造厂推荐的最大持续充电电流对样品充电 2 The minimum voltage of the test shall be as follows/本测试最小电压为:		
	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℃, 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 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。	-	
38.3.4.8	**Test 8: Forced discharge/测试 8: 强制放电**		**P**
	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: 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。	c16#~c35# For voltage data before test, see table 3. / 试验前电压见表 3 No disassembly and no fire / 无解体、无着火现象	

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Table1：T1~T5 / 表 1. 试验 1~试验 5

Sample No. 样品号	**Mass prior to test / 试验前质量 (g)**	**OCV prior to test /试验前电压(V)**	**Test 1: Altitude simulation/ 测试 1：高度模拟**		**Test 2: Thermal test/ 测试 2: 热冲击**		**Test 3: Vibration/ 测试 3: 振动**		**Test 4: Shock/ 测试 4: 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 (℃)
c1#	47,132	4,185	0,000	99,98	0,004	98,92	0,000	100,00	0,002	100,00	78,4
c2#	47,022	4,186	0,002	99,98	0,004	98,90	0,000	99,98	0,000	100,00	74,9
c3#	46,941	4,185	0,000	100,00	0,002	98,90	0,000	99,98	0,002	100,00	75,4
c4#	47,083	4,186	0,002	99,98	0,004	98,97	0,000	100,00	0,002	99,98	75,6
c5#	47,111	4,185	0,000	99,98	0,004	98,95	0,002	100,00	0,000	99,98	76,6
c6#	47,063	4,185	0,000	99,98	0,002	98,95	0,000	99,98	0,002	99,98	76,8
c7#	46,806	4,186	0,004	100,00	0,032	98,95	0,000	100,00	0,002	99,95	75,2
c8#	47,101	4,194	0,000	99,76	0,004	98,95	0,000	100,00	0,002	99,98	77,8
c9#	47,032	4,185	0,002	100,00	0,006	98,90	0,002	100,00	0,000	99,98	77,9
c10#	47,121	4,186	0,000	100,00	0,002	98,92	0,000	99,98	0,002	99,95	77,1

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Table2: Impact / 表 2: 撞击						
Test 6: Impact/测试 6：撞击	Sample No. 样品号	c11#	c12#	c13#	c14#	c15#
	OCV prior to test / 试验前电压（V）	3,899	3,898	3,898	3,897	3,898
	Temp. (℃) 温度 (℃)	129,9	30,0	29,4	31,1	31,2

Table 3：Forced discharge / 表 3. 强制放电											
Test 8: Forced discharge **/ 测试 8: 强制放电**	Sample No. 样品号	c16#	c17#	c18#	c19#	c20#	c21#	c22#	c23#	c24#	c25#
	OCV prior to test / 试验前电压(V)	3,377	3,388	3,391	3,376	3,386	3,378	3,381	3,391	3,382	3,384
	Sample No. 样品号	c26#	c27#	c28#	c29#	c30#	c31#	c32#	c33#	c34#	c35#
	OCV prior to test / 试验前电压(V)	3,377	3,386	3,391	3,381	3,379	3,383	3,376	3,386	3,380	3,390

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注 意 事 项
Important

1. 本报告无检测单位印章、骑封章无效。
   The test report is invalid without the official stamp of CVC and Paging seal of CVC.
2. 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 CVC.
3. 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.
4. 本报告涂改无效。
   The test report is invalid if altered,
5. 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 CVC within 15 days,
6. 本报告仅对送检样品负责。
   The test report is valid for the tested samples only.
7. 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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