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检测报告 UN38.3

Name	of sample:	Polymer li-ion battery
	产品名称:	聚合物锂离子电池
	Client:	XinWei Power Supply (dongguan) Co.,LTD
	委托单位:	芯威电源 (东莞) 有限公司
Clas	ssification:	Commission Test
	检测类别:	委托测试

Shenzhen Tiansu Calibration and Testing Co.,Ltd 深圳天溯计量检测股份有限公司

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TS(SZ)-J3-001-001-A1

UN38.3

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Rep. No.: ICT1J20191206510ZB-BR1/	Page 27 15 Pages
Name of samples: Polymer li-ion battery	Trade mark: -
样品名称: 聚合物锂离子电池	商标: -
Commissioned by: XinWei Power Supply (dongguan) Co.,LTD 委托单位: 芯威电源(东莞)有限公司	Commissioner address: 2nd Floor, No.10 Zhongkeng Road, Qingxi Town, Dongguan City 委托单位地址: 东莞市清溪镇中坑路 10 号二楼
Manufacturer by: XinWei Power Supply (dongguan) Co.,LTD 制造单位: 芯威电源(东莞)有限公司	Manufacturer address: 2nd Floor, No.10 Zhongkeng Road, Qingxi Town, Dongguan City 制造单位地址: 东莞市清溪镇中坑路 10 号二楼
Manufacturer's Contact Information 制造商联系信息: Phone: 13538283952	Manufacturer's Web Site 制造商网址:
Type/Model	shape: Primatic
型号规格: 602040 400mAh	样品形状: 棱形
Appearance color: Silver	Sample size
样品颜色: 银白色	样品尺寸: T(5.92mm)*W(20.20mm)*L(42.53mm)
Rated info.	Cell quantity
额定信息: 400mAh/1.48Wh/3.7V	组成电芯数量: 1PCS
Quantity of sample: 30cells+18batteries 样品数量: 30 个电芯+18 个电池	Cell mode 电芯型号: 602040 400mAh
Limited charge voltage	Cut-off voltage
充电限制电压: 4.2V	放电截止电压: 3.0V
Standard charge current	Max continuous charge current
标准充电电流: 200mA	最大持续充电电流: 400mA
Standard discharge current	Max continuous discharge current
标准放电电流: 200mA	最大持续放电电流: 400mA
Receiving date	Sample identification
接样日期: 2019 年 12 月 18 日	样品标识序号: 1#~48#
Completing date	Test item: 8 items
完成日期: 2019 年 12 月 29 日	测试项目: 8 项
Test conclusion:	

Test conclusion:

检测结论:

The Polymer li-ion battery submitted by XinWei Power Supply (dongguan) Co.,LTD are tested according to Section 38.3 of the Sixth Revised Edition Amendment 1 of the Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.6/Amend.1/Section38.3). The test results comply win the relevant requirements of the standard.

由芯威电源(东莞)有限公司送检的聚合物锂离子电池,依据《关于危险品货物运输的建设书》 订版修正 1 第 38.3 节进行检测,测试结果符合标准相关要求。

Date of issue:

签发日期: 2019

Approved by

批准:一方子

Reviewed by

审核:



Compiled by

编写: (图图)

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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	Sample No.	State	Remark
测试项目	样品编号	状态	备注
T.1~T.5	1#~5#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
7.1~1.5	6#~10#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
	11#~15#	at first cycle at 50% of the design rated capacity; 在第一个循环充电 50%的额定容量;	Cell
T.6	16#~20#	after 25 cycles ending in fully charged at 50% of the design rated capacity; 在第二十五个循环充电 50%的额定容量;	电芯
7.7	21#~24#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
1.7	25#~28#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
T.8	29#~38#	at first cycle in fully discharged states; 在第一个循环完全放电;	Cell
X VIII 7 LAN SA	39#~48#	after 25 cycles ending in fully discharged states; 在第二十五个循环完全放电;	电芯

_		4.5	c		MARK.	
1	Accri	ntinn	of the	sampling	nrocad	IIΓΔ.
\boldsymbol{L}	COUL	Duon	OI LIIC	Sampling	proced	uic.

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:

1

Remarks:

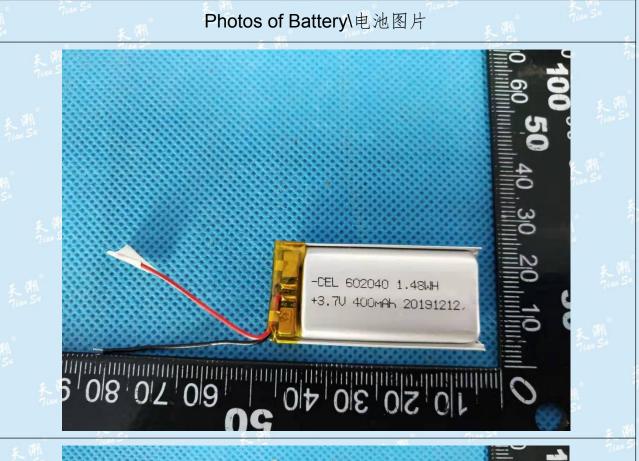
备注:

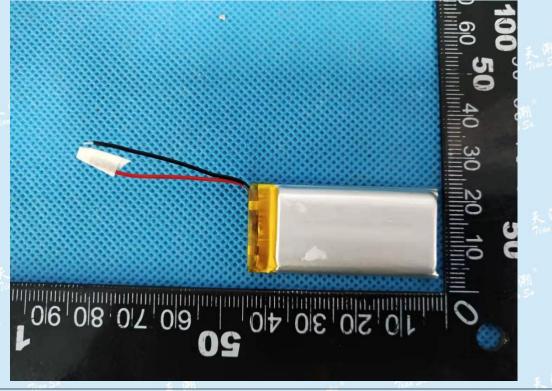
The Polymer li-ion battery submitted by XinWei Power Supply (dongguan) Co.,LTD are single cell batteries.

由芯威电源(东莞)有限公司所送的聚合物锂离子电池是单电芯电池。



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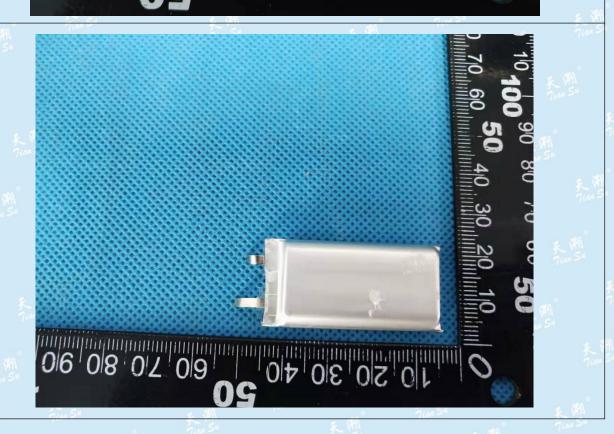


10 20 30 40 60 70

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38.3.4	Procedure/测记	试步骤 / / /		天選.	MIAN 2"	288	7(4) 51-	
	Test 1: Altitud	de simulation/	测试 1:高度模	拟	e siA	Tian Si		
	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:	-/.ma	19. 71.00	54	天 聯		
	1.Cells and ba	atteries Mass Ic	ss limit: ≤0.2%	54		7,000	- MA	
38.3.4.1	样品质量损	失≤0.2%。				wa "	7 tan 5	
30.3.4.1	applicable to	o test cells and	batteries at full	discharged sta		主 资		
	和电芯。				要求不适用于完全	è放完电的电池 		
			disassembly, n 上排气、无解体、		no fire. 着火现象的发生。	夫 潮。	7 ian	
4 4	Result 测试结果	美 714	A Tiend Su	Su 主 渊	天湖 Tian St		天湖 7001511	
Sample No.	Before 测证	1	- T-1	· Test fun ⁵⁰ 式后	Mass loss	Residual OCV	Test result	
样品编号	Mass 样品质量 (g)	Voltage 开路电压(V)	Mass 样品质量(g)	Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	测试结果	
1#	9.161	4.144	9.156	4.143	0.05	99.98	Р	
2#	9.148	4.150	9.146	4.147	0.02	99.93	Р	
3#	9.157	4.149	9.156	4.147	0.01	99.95	Р	
4#	9.160	4.147	9.159	4.145	0.01	99.95	Р	
5#	9.149	4.146	9.148	4.143	0.01	99.93	A P	
6#	9.162	4.147	9.161	4.143	0.01	99.90	Р	
7#	9.158	4.148	9.157	4.146	0.01	99.95	Р	
8#	9.158	4.148	9.157	4.145	0.01	99.93	Р	
							225070000	
9#	9.153	4.151	9.152	4.149	0.01	99.95	Р	

Other supplements: Test result "P" decides that the test item passes.

其他补充:测试结果"P"代表判定该测试项目通过。

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38.3.4	Procedure/测	试步骤	A.	天雕	Mian Se	. Mg	71an SIL
54 46	Test 2: Therr	mal test/测试 2:	: 温度测试	7 can 2	24	Miles Sil	3
Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72±2℃, followed by storage for at least six hours at a test temperature equal to -40±2℃, The maximum time interval between test temperature extremes in 30 minutes, This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20±5℃). 将电芯和电池在温度为 72±2℃的条件下贮存不少于 6 个小时,然后,在温度-40±2℃条件下贮存不少于 6 个小时,两个温度间的间隔最长为 30min,重复操作上述步骤直到 10 次,然后,							
	100000	个小时,两个追 度为 20±5 ℃的。			夏操作上述步骤直	10 次,然后,	7ian Su
38.3.4.2		atteries Mass Ic	oss limit: ≤0.2%	长期	天湖 Tian Sa	Time Time	Р
	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。					天瀬 天瀬	
	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。					71.00	
71am 5	Result 测试结果	天瀬 7(a) 51	7(4.00	天湖 Tian Su	71055°	来) Tian	in Se
Sample No.		re test 式前	MIAN DW	· Test 式后	Mass loss	Residual OCV	Test result
样品编号	Mass 样品质量 (g)	Voltage 开路电压(V)	Mass 样品质量(g)	Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	测试结果
VIII -5- 1#	9.156	4.143	9.155	4.123	0.01	99.52	Р
2#	9.146	4.147	9.145	4.121	0.01	99.37	[®] Р
3#	9.156	4.147	9.155	4.120	0.01	99.35	Р

 10#
 9.153
 4.147
 9.152
 4.120
 0.01
 99.35

 Other supplements: Test result "P" decides that the test item passes.

9.158

9.147

9.160

9.156

9.155

9.151

4.120

4.119

4.121

4.110

4.121

4.126

0.01

0.01

0.01

0.01

0.02

0.01

99.40

99.42

99.47

99.13

99.42

99.45

Ρ

Ρ

Ρ

Ρ

Ρ

Р

其他补充:测试结果"P"代表判定该测试项目通过。

9.159

9.148

9.161

9.157

9.157

9.152

4.145

4.143

4.143

4.146

4.145

4.149

4#

5#

6#

7#

8#

9#

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38.3.4	Procedure/	训试步骤					714H SI_	
5°	Test 3: Vibration/测试 3: 振动							
	Cells and 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 wave form 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 position of the cell.							
	将电芯和电池牢固地安装在振动台的台面上,然后开始振动。振动以正弦波形式,以 7Hz 增加至 200Hz,然后再减少回到 7Hz 为一个循环,一个循环持续 15 分钟的对数扫频。每个电芯和电池从三个互相垂直的方向上循环 12 次,3 个小时。							
38.3.4.3	Requirement	/标准要求:	7100 30		710151	美質	Р	
	7.11	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。						天願 Tide Su	
	3.No leakage, no venting, no disassembly, no rupture and no fire.							
	样品(电池	1) 应无漏液、无	·排气、无解体、	. 无破裂以及无	着火现象的发生。	,		
	Result 测试结果	7ian Su	支溯	天間 Tien Sin	<u>*</u>	MA Su	54 K	
Sample No.		re test 试前		r Test 试后	Mass loss	Residual OCV	Test resul	
样品编号	Mass 样品质量 (g)	Voltage 开路电压(V)	Mass 样品质量(g)	Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	测试结	
1#	9.155	4.123	9.154	4.120	0.01	99.93	Р	
2#	9.145	4.121	9.144	4.116	0.01	99.88	P P	
3#	9.155	4.120	9.154	4.112	0.01	99.81	Р	
4#	9.158	4.120	9.156	4.113	0.02	99.83	Р	
100	980 °	7(0.51	1	7.16	, Y44	Trail 3"		

Other supplements: Test result "P" decides that the test item passes.

4.119

4.121

4.110

4.121

4.126

4.120

9.146

9.158

9.155

9.154

9.150

9.150

4.117

4.105

4.104

4.114

4.121

4.112

0.01

0.02

0.01

0.01

0.01

0.02

99.95

99.61

99.85

99.83

99.88

99.81

Ρ

Ρ

Ρ

Ρ

Ρ

Ρ

其他补充:测试结果"P"代表判定该测试项目通过。

9.147

9.160

9.156

9.155

9.151

9.152

5#

6#

7#

8#

9#

10#

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38.3.4	Procedure/测	试步骤		天難"	Tian 3"	288	71an Su_
大湖 Tian Sa Tian Sa	Test 4: Shoc Test cells and to a half-sine smaller) and subjected to a smaller) and smaller) and smaller and smal	k/测试 4:冲击 I batteries shall shock of peak a pulse duration of a half-sine of pe pulse duration of	acceleration of of 6 millisecond ack acceleration of 11 millisecond	150gn (or Accel s, large cells an of 50gn (or Acds. Each cell or	nine, and each shalleration(gn)= $\sqrt{\frac{100}{n}}$ delarge batteries celeration(gn)= battery shall be take in the negative	shall be $\sqrt{\frac{30000}{aass}}$, which is subjected to	天 雅 7100 Su
38.3.4.4	以稳固的托架 (或与√ ¹⁰⁰⁸⁸⁹ 须经受最大加 每个电池或电 受三次冲击,	固定住每个电芯中的较小值)的 速度 50gn(或 池组须在三个互 总共经受 18 次	7 和电池样品的 1 半 $\overline{1}$ 1	全部配件表面。对 建撞击,脉冲持约 小值)和脉冲持	or battery for a to 对每个电芯或电池 卖 6 毫秒,大型电 续时间 11 毫秒的 向经受三次冲击,	以峰值为 150gn 池和大型电池组 分半正弦波冲击。	P
天湖 7ian Su 湖 Su Finn Su	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。						7(au - 1 天 瀬 7(au Su 五
2 88	Result/测试组		天 瀾		70 30	, S≝ - wa [©]	天 Mil Tida So
Sample		re test 式前	1973	r Test 式后	Mass loss	Residual OCV	Test
No. 样品编号	Mass 样品质量 (g)	Voltage 开路电压(V)	Mass 样品质量(g)	Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	result 测试结果
1#	9.154	4.120	9.152	4.118	0.02	99.95	Р
2#	9.144	4.116	9.141	4.113	0.03	99.93	B P
3#	9.154	4.112	9.153	4.108	0.01	99.90	P _L W
4#	9.156	4.113	9.155	4.102	0.01	99.73	P
5#	9.146	4.117	9.145	4.107	0.01	99.76	Р
6#	9.158	4.105	9.157	4.101	0.01	99.90	7 co P
7#	9.155	4.104	9.154	4.101	0.01	99.93	Р
8#	9.154	4.114	9.153	4.108	0.01	99.85	Р
9#	9.150	4.121	9.148	4.117	0.02	99.90	Р

Other supplements: Test result "P" decides that the test item passes.

4.112

9.148

4.108

0.02

99.90

Ρ

其他补充:测试结果"P"代表判定该测试项目通过。

9.150

10#

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38.3.4	win and the second seco	
	Test 5: External short circuit/测试 5: 外部短路	
38.3.4.5	The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches 57 ± 4 $^{\circ}$ and then 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 $^{\circ}$. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57 ± 4 $^{\circ}$. The cell or battery must be observed for a further six hour for the test to be concluded. 保持试验环境温度稳定在 57 ± 4 $^{\circ}$. 以使电芯或电池样品外表温度达到 57 ± 4 $^{\circ}$. 然后,在此温度下,将其正负极用小于 0.1 欧姆的线路短接,待电芯或电池的外表温度恢复到 57 ± 4 $^{\circ}$ 之后再持续 1 小时以上,对电芯或电池必须进一步观察 6 个小时才能下结论。	天 渊 Tian S Pian S P
	Requirement/标准要求: 1.Cells and batteries meet this requirement if their external temperature does not exceed 170℃; 电芯或电池的外壳温度应不超过 170℃; 2. No disassembly, no rupture and no fire during the test and within six hours after this test.	天海 Tian S
	试验后6小时内无解体、无破裂、无起火。	2 VA
	试验后 6 小时内无解体、无破裂、无起火。 Result 测试结果	文雅 Tide Su
Sample No. 样品编号	Result	Test result 测试结果
No.	Result 测试结果 Max External Temp	result
No. 样品编号	Result 测试结果 Max External Temp 样品表面最高温度(℃)	result 测试结果
No. 样品编号 1#	Result 测试结果 Max External Temp 样品表面最高温度(℃)	result 测试结果 P
No. 样品编号 1# 2#	Result 测试结果 Max External Temp 样品表面最高温度(℃) 53.4 54.5	result 测试结果 P P
No. 样品编号 1# 2# 3#	Result 测试结果 Max External Temp 样品表面最高温度(℃) 53.4 54.5	result 测试结果 P P
No. 样品编号 1# 2# 3# 4#	Result 测试结果 Max External Temp 样品表面最高温度(℃) 53.4 54.5 54.3	result 测试结界 P P P
No. 样品编号 1# 2# 3# 4# 5#	Result 测试结果 Max External Temp 样品表面最高温度(℃) 53.4 54.5 54.3 54.3 53.7	result 测试结界 P P P
No. 样品编号 1# 2# 3# 4# 5# 6#	Result 测试结果 Max External Temp 样品表面最高温度(℃) 53.4 54.5 54.3 54.3 53.7 53.3	P P P P
No. 样品编号 1# 2# 3# 4# 5# 6# 7#	Result 测试结果 Max External Temp 样品表面最高温度(℃) 53.4 54.5 54.3 54.3 53.7 53.3 55.0	P P P P P

其他补充:测试结果"P"代表判定该测试项目通过。

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38.3.4	Procedure/测试步骤	71an SI
5·8 天 雅 7ica 5·	Test 6: Crush\Impact/ 测试 6: 挤压(适用) 撞击(不适用)	· *
天 洲	Crush 挤压	天 湖 Tran Su
7(44	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.	、湖
VIII 154	(a) The applied force reaches 13kN±0.78kN;	Allow III
***	(b) The voltage of the cell drops by at least 100 mV;	
7100 5	(c) The cell is deformed by 50% or more of its original thickness.	
NA.	Once the maximum pressure has been obtained, the voltage drops by 100mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.	天 渊
Tida Sa	电池芯或组成电池芯在两个平面间挤压。挤压在第一个接触点以约 1.5cm/s 的速度慢慢进行,直到下面三个选项之一达到为止: (a)作用力达到 13kN±0.78kN;	
sel a	(b)电池芯电压降至少达到 100mV;	夫 Will
MIN , 54	(c)电池厚度和最初比较变形至少 50%。	11 1000
5 H	一旦达到最大压力, 电压降超过 100 mV 或者电池芯变形超过 50%, 压力应该解除。	a
7 Lan S	Impact 54 4 A 7 A	Ĥ S∎
	撞击	
38.3.4.6	(applicable to cylindrical cells not less than 18mm in diameter)	P
30.3.4.0	The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm ±	P
	0.1 mm diameter, at least 6 cm long, or the longest dimension of the cell, whichever is	#A
184	greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A 9.1	Tian Su
ian Si	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	
2 1	with minimal drag on the falling mass. The vertical track or channel used to guide the falling	da ^a
714	mass shall be oriented 90 degrees from the horizontal supporting surface.	M1 54
	The test sample is to be impacted with its longitudinal axis parallel to the flat surface and	. 9
夫 潮 7:00 50	perpendicular to the longitudinal axis of the 15.8 mm ± 0.1 mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.	Tians
湘	Cells and component cells meet this requirement if their external temperature does not exceed 170°C and there is no disassembly and no fire during the test and within six hours after this test.	天湖
.a. 54	(适用于直径不小于 18 毫米的圆柱形电池)将电池或元件电池样品平放在一个平面上,其纵轴	
*	平行于测试台面年,将一直径为 15.8 mm ± 0.1 mm 的 316 型不锈钢棒横放在电池中心位置。	20
i Tilo	然后,将一质量为 9.1 kg ± 0.1 kg 的物体从 61±2.5 cm 的高度落向样品。样品在进行试验时, 其外表温度应不超过 170℃。且试验结束后 6 个小时之内,样品应无解体、无起火现象发生。	5
天湖	Requirements/标准要求:	710
7 Lan Su	1.Cells and component cells meet this requirement if their external temperature does not	
	exceed 170℃; 电芯的外壳温度应不超过 170℃;	* VII
长潮	电心的外先温度应不超过 170 C; 2. No disassembly, no fire during the test and within six hours after this test.	7 ian Su
71da 54	试验后 6 小时内无解体、无起火。	

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7 (d	Result 测试结果	天瀬 Tean Sii 天湖	Y VIII 71an Su
Sample No. 样品编号	OCV prior to test 试验前电压(V)	Max External Temp 样品表面最高温度(℃)	Test result 测试结果
11#	3.843	21.2 F Wh	P
12#	3.826	21.1 天間	Р
13#	3.816	21.0	Р
14#	3.828	21.2 _{* M}	P P
15#	3.836	21.1	Р
16#	3.839	21.1	P
17#	3.842	21.2 7 ^{LM 58}	Р
18#	3.837	21.0	Р
19#	3.820	21.1	P
20#	3.823	71.1 \$ WA	Р

Other supplements: Test result "P" decides that the test item passes.

其他补充:测试结果"P"代表判定该测试项目通过。

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	Procedure/测试步骤	71an >-			
- 38	Test 7: Overcharge/测试 7: 过度充电				
7100 St 7100 St 38.3.4.7	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 or 22V, whichever is less. When the manufacturer's recommended charge voltage is more than 18V, the charging voltage of the test shall be 1.2 times maximum charge voltage. The charging current is 2 times of the maximum charging current recommended by the manufacturer. 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该是两倍的厂家标定最大充电电压或者是 22V,取其中较小者。如果厂家推荐的充电电压超过 18V,充电电压应该为 1.2 倍的厂家标定最大充电电压。充电电流为厂家推荐的最大充电电流 2 倍。				
	Requirements/标准要求: No disassembly and no fire during the test and within seven days after the test. 试验样品在试验中和试验后 7 天内,应无解体和无起火现象发生。				
	Result 测试结果	7101 51			
	例 风 名 木 川)				
Sample No. 样品编号	OCV prior to test 试验前电压(V)	Test result 测试结果			
Take -	OCV prior to test	33/11/			
样品编号	OCV prior to test 试验前电压(V)	测试结果			
样品编号 21#	OCV prior to test 试验前电压(V) 4.155	测试结果 P			
样品编号 21# 22#	OCV prior to test 试验前电压(V) 4.155	测试结果 P P			
样品编号 21# 22# 23#	OCV prior to test 试验前电压(V) 4.155 4.150	测试结果 P P			
样品编号 21# 22# 23# 24#	OCV prior to test 试验前电压(V) 4.155 4.150 4.151 4.153	测试结果 P P P			
样品编号 21# 22# 23# 24# 25#	OCV prior to test 试验前电压(V) 4.155 4.150 4.151 4.153 4.154	测试结果 P P P			

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38.3.4	Procedure/测试步骤		天雕	289	71an SI
天 湖 フian 5 m 38.3.4.8 天 湖 フian 5 m	Test 8: Forced discharge/测试 8: 强制放电				
	Each cell shall be 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 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 shall be forced discharged for a time interval(in hours) equal to its rated capacity divided by the initial test current(in ampere). 在 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,此直流电源提供每个电芯初始电流为制造厂指定的最大放电电流,放电时间为额定容量除以初始电流。				
	Requirements/标准要求: No disassembly and no fire during the test and within seven days after the test. 试验样品在试验中和试验后 7 天内,应无解体和无起火现象发生。				
	Result 测试结果	Plan -	天湖 Transi	大湖 Tien Si	天 開 7mm 5m
Sample No. 样品编号	OCV prior to test 试验前电压(V)	Test result 测试结果	Sample No. 样品编号	OCV prior to test 试验前电压(V)	Test result 测试结果
29#	3.406	Р	39#	3.405	P
30#	3.400	P	40#	3.408	Р
31#	3.413	Р	41#	3.413	Р
32#	3.410	Р	42#	3.415	P
	3.402	P _a S	43#	3.407	Р
33#	5 File		W.G	3.409	м 5 P
33#	3.401	Р	44#	3.409	'
7/100	3.401	P P	44#	3.410	P
34#	大 鄉	- YA	7145 5"	<u>₹</u> \fi	
34#	3.406	K WiP	45#	3.410	P

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STATEMENTS

声明

- 1. The test report is invalid without the official stamp of Tiansu. 本报告无检测单位印章无效。
- 2. Nobody is allowed to photocopy or partly photocopy this test report without written permission of Tiansu.

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- 3. The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer. 本报告无批准人、审核人及鉴定人签名无效。
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- 6. The test report is valid for the tested samples only. 本报告仅与送检样品有关。
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