





中国认可 国际互认 检测 TESTING CNAS L5138

Rep.No.:TSZ22030202-P01-R01

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# 检测报告 UN38.3

Name	of sample:	Lithium ion Battery
	产品名称:	世离子电池 理离子电池
Mode	Ⅱ型号规格:	54
	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

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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UN38.3



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Rep. No.: 13222030202-P01-R01	rage 27 15 rages
Name of samples: Lithium ion Battery	Trade mark: -
样品名称: 锂离子电池 Commissioned by: XinWei Power Supply (dongguan) Co.,LTD. 委托单位: 芯威电源(东莞)有限公司	商标: -  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 Email: 13538283952@163.com	Manufacturer's Web Site 制造商网址:
Type/Model	Shape: Prismatic
型号规格: 581013	样品形状: 棱柱形
Appearance color: Silver	Sample size
样品颜色: 银色	样品尺寸: L(14.00mm)*W(10.00mm)*H(5.80mm)
Rated info.	Cell quantity
额定信息: 3.7V/55mAh/0.2035Wh	组成电芯数量: 1pcs
Quantity of sample: 30cells+18batteries	Cell model
样品数量: 30 个电芯+18 个电池	电芯型号: 581013
Limited charge voltage	Cut-off voltage
充电限制电压: 4.2V	放电截止电压: 2.75V
Standard charge current	Max continuous charge current
标准充电电流: 27.5mA	最大持续充电电流: 55mA
Standard discharge current	Max continuous discharge current
标准放电电流: 27.5mA	最大持续放电电流: 55mA
Receiving date	Sample identification
接样日期: 2022/03/14	样品标识序号: C01#~C30#, B01#~B1##
Completing date	Test item: 8 items
完成日期: 2022/03/25	测试项目: 8 项
Test conclusion:	

Test conclusion:

检测结论:

The Lithium ion Battery submitted by XinWei Power Supply (dongguan) Co.,LTD. are tested according to Section 38.3 of The Seventh Revised Edition of the United Nations Recommendations on the Transport of Pangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7/Section38.3). The test results comply with the relevant requirements of the standard.

由芯威电源(东莞)有限公司送检的锂离子电池,依据联合国《关于危险货物运输的建议书,试验和标准手册》第七修订版第38.3节进行检测,测试结果符合标准相关要求。

Date of issue: Mar.28, 2022 签发日期:2022 年 03 月 28 日

批准 Approved by

段江涛

审核 Reviewed by

邓兴夏

主 检 Tested by

徐志龙

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Description and illustration of the sample:

样品说明及描述:

十四		F Will	
Test item 测试项目	Sample No. 样品编号	State 系统 张态	Remark 备注
T.1~T.5	B01#~B05#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
1.1~1.5	B06#~B10#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
e 7ian 5"	C01#~C05#	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	C06#~C10#	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
T.7	B11#~B14#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
Tan Su	B15#~B18#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
T.8	C11#~C20#	at first cycle in fully discharged states; 在第一个循环完全放电;	Cell
1.0	C21#~C30#	after 25 cycles ending in fully discharged states; 在第二十五个循环完全放电;	电芯

D	1: £	41	Illia		
Descrip	tion of	tne	sampiing	procedure	١.

取样程序的说明:

N/A

Description of report revision:

报告修订的说明: N/A

Remarks:

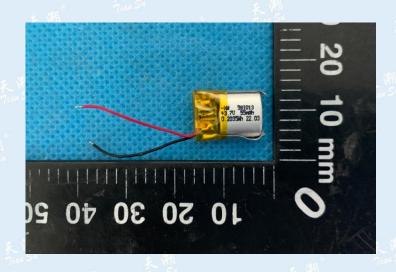
备注:

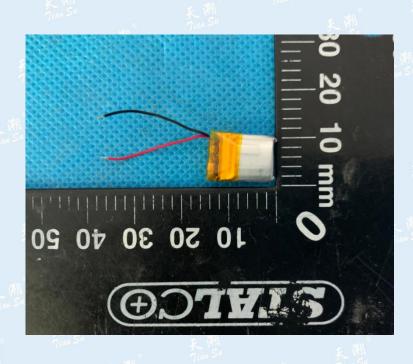
The Lithium ion Battery submitted by XinWei Power Supply (dongguan) Co.,LTD. are single cell batteries.

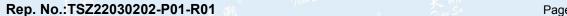
由芯威电源(东莞)有限公司所送的锂离子电池是单电芯电池。

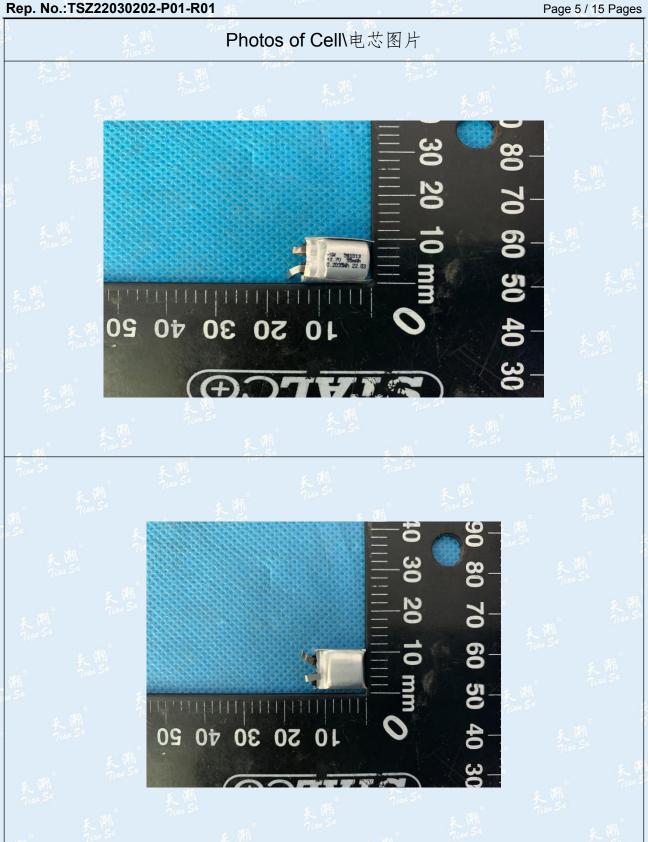
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38.3.4	Procedure/测记	式步骤 7000 50					11at 2" —		
天湖。 Tian Su	Test 1: Altitud	de simulation/	测试 1: 高度模	拟	天湖 54	- Trans			
	Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hour at ambient temperature (20±5℃). 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/	Requirement/标准要求:							
	1.Cells and ba	tteries Mass Ic	oss limit: ≤0.2%				洲 54 万		
38.3.4.1	样品质量损	失≤0.2%。					P		
美術 71an Su	applicable to	test cells and	batteries at full	discharged sta			6 (		
	种电芯。	开龄电压应个1	4. 丁风短削开路	电压的 90%,此	要求不适用于完全	E 放元电的电池			
	1,000	no venting, no	disassembly, n	o rupture and i	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。	, 9im 5"			
系 7 1 54	Result 测试结果	天) Tian S	ξ	天 湖 7:00 5"	Jian 54	支幣	天湖 7ian Su		
Sample No.	Before Test 测试前		After Test 测试后		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		
B01#	1.193	4.183	1.193	4.180	0.00	99.93	Р		
B02#	1.192	4.187	1.192	4.182	0.00	99.88	Р		
B03#	1.196	4.187	1.195	4.183	0.08	99.90	Tial Su P		
B04#	1.198	4.187	1.198	4.184	0.00	99.93	Р		
B05#	1.197	4.186	1.196	4.184	0.08	99.95	Р		
B06#	1.190	4.182	1.190	4.177	0.00	99.88	Р		
B07#	1.190	4.188	1.189	4.184	0.08	99.90	Р		
B08#	51.191	4.182	1.191	4.178	0.00	99.90	I. P		
B09#	1.190	4.182	1.190	4.177	0.00	99.88	Р		
	A.		Z < 0	4.187	0.08	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						
天湖。	Test 2: Thern	nal test/测试 2	: 温度测试		天哪.	-71 an 2" - 28 A	n n	
	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,将其在环境温度为 20±5℃的条件下放置 24 个小时。							
38.3.4.2	样品质量损 2.Open circuit	atteries Mass lo 失≤0.2%. t voltage not les		ne requirement	relating to voltage	ge is not	P Finn Su	
	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。							
	Result 测试结果	7ian 5"	<b>采潮</b> 。	天湖 7iau Su	美 70	例 u S <sup>a</sup>	天逝	
Sample No.	Before Test 测试前		After Test 测试后		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	
B01#	1.193	4.180	1.192	4.161	0.08	99.55	Р	
B02#	1.192	4.182	1.191	4.163	0.08	99.55	P P	
				4.103	0.00	33.00		
B03#	1.195	4.183	1.194	4.163	0.08	99.47	P	
B03# B04#	1.195 1.198	4.183 4.184	1.194	71015			P P	
- 大学	1,000	w/a	- S#	4.161	0.08	99.47	ALAN S	
B04#	1.198	4.184	1.197	4.161 4.164	0.08	99.47	Р	
B04# B05#	1.198	4.184	1.197 1.195	4.161 4.164 4.164	0.08 0.08	99.47 99.52 99.52	P P	
B04# B05# B06#	1.198 1.196 1.190	4.184 4.184 4.177	1.197 1.195 1.189	4.161 4.164 4.164 4.155	0.08 0.08 0.08	99.47 99.52 99.52 99.47	P P	
B04# B05# B06# B07#	1.198 1.196 1.190 1.189	4.184 4.184 4.177 4.184	1.197 1.195 1.189 1.188	4.161 4.164 4.164 4.155 4.165	0.08 0.08 0.08 0.08	99.47 99.52 99.52 99.47 99.55	P P P	

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/∛	试步骤					_
天湖	Test 3: Vibra	tion/测试 3: 掮	动 700050	08	天洲	Tean - 189	
	distorting the be a sinusoid Hz traversed each of three 将电芯和电池 加至 200Hz,	cells in such a al wave form w in 15 minutes, mutually perpe 中固地安装在抄	manner as to faith a logarithmio This cycle shall endicular mount 最动台的台面上 剛 7Hz 为一个循	aithfully transmi c sweep betwee be repeated 12 ting position of t ,然后开始振动 f环,一个循环打	en 7 Hz and 200 2 times for a tota	ne vibration shall Hz and back to 7 I of 3 hours for 形式,以 7Hz 增	天湖 Tian Su M ian Su
38.3.4.3  ********************************	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。						
	Result 测试结果	700	天湖。 500050	Tian Su	A Tia	₩\ "S"	K. W.
Sample No.	Before Test 测试前		After Test 测试后		Mass loss	Residual OCV	Test
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
B01#	1.192	4.161	1.191	4.158	0.08	99.93	Р
B02#	1.191	4.163	1.190	4.162	0.08	99.98	Р
B03#	1.194	4.161	1.194	4.160	0.00	99.98	Pian
B04#	1.197	4.164	1.196	4.160	0.08	99.90	Р
B05#	1.195	4.164	1.194	4.162	0.08	99.95	- P

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

4.155

4.165

4.156

4.158

4.165

1.189

1.187

1.189

1.189

1.186

4.151

4.164

4.152

4.157

4.163

0.00

0.08

80.0

0.00

0.08

99.90

99.98

99.90

99.98

99.95

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。

1.189

1.188

1.190

1.189

1.187

B06#

B07#

B08#

B09#

B10#

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38.3.4	Procedure/测	试步骤	- 10	7 (at 5"		天棚	_
天湖。	Test 4: Shoc	k/测试 4: 冲击	Fine Su	20	天湖	-71an -	
7 can Sh 7 can	Test 4: Shock/测试 4: 冲击  Test cells and batteries shall be secured to the testing machine, and each shall be subjected to a half-sine shock of peak acceleration of 150gn (or Acceleration(gn)= √ (mass) , which is smaller) and pulse duration of 6 milliseconds, large cells and large batteries shall be subjected to a half-sine of peak acceleration of 50gn (or Acceleration(gn)= √ (mass) , which is smaller) and pulse duration of 11 milliseconds. 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. 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。对每个电芯或电池以峰值为 150gn(或与√(mass) 中的较小值)的半正弦的加速度撞击,脉冲持续6毫秒,大型电池和大型电池组须经受最大加速度 50gn(或与√(mass) 中的较小值)和脉冲持续时间 11 毫秒的半正弦波冲击。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。  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。						
天 (M) 71000 5世	Result/测试组	<u> </u>	gias 5"	T	MIN Su	<u>₹</u> ₩	7,000
Sample No.	Before Test 测试前		After Test 测试后		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(%)	测试结身
B01#	1.191	4.158	1.191	4.156	0.00	99.95	Р
B02#	1.190	4.162	1.190	4.161	0.00	99.98	Р
B03#	1.194	4.160	1.193	4.158	0.08	99.95	Р
B04#	1.196	4.160	1.195	4.159	0.08	99.98	Р
B05#	1.194	4.162	1.193	4.158	0.08	99.90	7 an P
B06#	1.189	4.151	1.188	4.149	0.08	99.95	Р
B07#	1.187	4.164	1.187	4.162	0.00	99.95	Р
B08#	1.189	4.152	1.189	4.150	0.00	99.95	Р
B09#	1.189	4.157	1.188	4.155	0.08	99.95	Р
	- 3/A	Man Die	- 5	YAYA	4 (34)	1100 5	

0.00

99.88

Р

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

4.163

1.186

4.158

其他补充:测试结果"P"代表判定该测试项目通过。

1.186

B10#

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38.3.4	Procedure/测试步骤	ven Tier Su	<u> </u>	_	
<b>毛湖</b> 。	Test 5: External short	circuit/测试 5: 外部短路	The state of the s		
7:44 54 7:44 54 38.3.4.5	The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches 57±4℃ 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℃, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57±4℃, 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℃,以使电芯或电池样品外表温度达到 57±4℃,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℃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。				
	Requirement/标准要求:	长髓	z M		
	170℃; 电芯或电池的外壳温质	upture and no fire during the test and v	夫 渊 5:a5 5 a	天衛 天衛 天衛 天衛 天衛 天衛 天衛 天衛 大瀬 ちゅ	
· 一种	Result 测试结果	Fine Su	天湖 Tian Se		
Sample No. 样品编号	天) 天) 天) 1000 Su	Max External Temp 样品表面最高温度(℃)	Tian Su 天湖 Tian Tian Su	Test result 测试结身	
B01#	≠ M <sup>°</sup>	7ian 50 57.3 7ian 5	· 天湖	Р	
B02#	<b>人</b> 湖。 7ian 5"	57.8	天湖。 71000	Р	
B03#	years 2"	57.7 57.5 S	z M	Tian Su P	
B04#	gian Su	58.4	天湖" Tian Si	Р	
B05#	天 V Tian	57.7	Team 5" Team	Р	
B06#	Tian Su	58.1	7 ian Su	Р	
B07#	天湖 Marsu	57.7	50 F 1997 7100 50	Р	
D0111	e Vil	E7.1	R VIII Tian Su	i P	
B08#	7can Su	57.1			
	7:au Su 天湖	58.1 7ton 5th	天湖	Р	

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10 m		
	Test 6: Crush\Impact/ 测试 6: 挤压(适用) 撞击(不适用)	
	Crush 挤压	Z VIII 7ian Su
	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.	ian Su
	(a) The applied force reaches 13kN±0.78kN;	4
	(b) The voltage of the cell drops by at least 100 mV;	9
	(c) The cell is deformed by 50% or more of its original thickness.	6
	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. 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	天衛 Tian S
	行,直到下面三个选项之一达到为止:	* **\
	(a)作用力达到 13kN±0.78kN;	Tian Su
	(b)电池芯电压降至少达到 100mV;	
	(c)电池厚度和最初比较变形至少 50%。 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。	1
	Impact	. w
	撞击 54	<u>*</u>
8.3.4.6	(applicable to cylindrical cells not less than 18mm in diameter)	P
5.3.4.6	The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm ± 0.1 mm diameter, at least 6 cm long, or the longest dimension of the cell, whichever is	天湖
	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.	7ian 5" A 5"
	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 $\pm$ 0.1 mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.	Tian Tian
	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.	Tian Su
	(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。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。	州 5# 美
	Requirements/标准要求:	100
	1.Cells and component cells meet this requirement if their external temperature does not	
	exceed 170℃;	美洲
	电芯的外壳温度应不超过 170℃;	Tian Su
	2. No disassembly, no fire during the test and within six hours after this test.	

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	Result 测试结果	长期 7ian Su 7ian Su 7ian Su	7ian ≥"
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
C01#	3.843 Fin Su	24.5 The Second	P-VA Pian Su
C02#	3.823	25.1 25.1 7im 54	Р
C03#	3.830	25.0	₹ P
C04#	3.835	24.4	Р
C05#	3.837	25.0	Р
C06#	3.822	24.4	Р
C07#	3.843	24.5	Pian Su
C08#	3.825 3.825	25.1 A	Р
C09#	3.822	24.7	7ian P
C10#	3.824 £ 19	25.0 Tim 54	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	_			
	Test 7: Overcharge/测试 7: 过度充电	14A) 14 S 4			
	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. T charging current is 2 times of the maximum charging current recommended by the	he			
	manufacturer.	Р			
38.3.4.7 M Tian Su Tian Su	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。	344			
	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。				
	1780 - 178				
	Result 测试结果	•			
•	No. 20 € 100 100 100 100 100 100 100 100 100	Test result 测试结果			
<u>-</u>	测试结果 OCV prior to test	1.01			
样品编号	测试结果 OCV prior to test 试验前电压(V)	测试结果			
样品编号 B11#	测试结果 OCV prior to test 试验前电压(V) 4.182	测试结果 P			
样品编号 B11# B12#	测试结果 OCV prior to test 试验前电压 (V) 4.182 4.182	测试结果 P P			
样品编号 B11# B12# B13#	测试结果 OCV prior to test 试验前电压 (V) 4.182 4.183	测试结果 P P			
样品编号 B11# B12# B13# B14#	测试结果 OCV prior to test 试验前电压 (V) 4.182 4.182 4.183 4.187	测试结果 P P P			
B12# B13# B14# B15#	测试结果 OCV prior to test 试验前电压 (V) 4.182 4.183 4.187 4.182	测试结果 P P P P			

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天 湖 7ian Su 天 7ian Su	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	<b>上</b> 願。	天潮 7ian Su	7:as 5" 天 渊 7:as 5"	X MA Tian Su
						Sample No.	OCV prior to test	Test result	Sample No.	OCV prior to test
	样品编号	试验前电压 (V)	测试结果	样品编号	试验前电压 (V)	测试结果				
C11#	3.508	Pias Su P	C21#	3.470	P <sub>rjian</sub>					
C12#	3.512	P 🙏	C22#	3.512	Р					
	0.405	Р	C23#	3.495	F. B.					
C13#	3.465	F								
C13#	3.465	P	C24#	3.448	Р					
	7.015		C24#	3.448	P M P					
C14#	3.457	PM Trans		* VIA						
C14#	3.457 3.542	P	C25#	3.492	∰ P					
C14# C15# C16#	3.457 3.542 3.442	P P	C25#	3.492	P P					
C14# C15# C16# C17#	3.457 3.542 3.442 3.547	P P P	C25# C26# C27#	3.492 3.468 3.512	P 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. This report shall not be copied partly without the written approval of Shenzhen Tiansu Calibration and Testing Co.,Ltd.

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- 4. The test report is invalid if altered. 本报告涂改无效。
- 5. Objections to the test report must be submitted to Tiansu within 15 days. 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。
- 6. The test report is valid for the tested samples only. 本报告仅与送检样品有关。

-----报告结束-----