





中国认可 国际互认 检测 TESTING CNAS L5138

Rep.No.:TSZ22010003-P02-R01

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# 检测报告 UN38.3

Lithium-ion Battery
锂离子电池 2005
7 YB753665 KM 7 100 Su
Flipper Devices Inc
Flipper Devices Inc
Commission Test
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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UN38.3



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Name of samples: Lithium-ion Battery	Trade mark: -
样品名称: 锂离子电池 4.5%	商标:-
Commissioned by:	Commissioner address:
Flipper Devices Inc	Suite B #551, 2803 Philadelphia Pike, Claymont, DE 19703
委托单位: 大湖 大湖	委托单位地址:
Flipper Devices Inc	Suite B #551, 2803 Philadelphia Pike, Claymont, DE 19703
Manufacturer by:	Manufacturer address:
GuangDong YungBang New Energy Co., Ltd.	No.49, Shahu Qilin Ling Road, Tangxia Town, Dongguan
制造单位:	City, Guangdong Province, china
广东永邦新能源股份有限公司	制造单位地址:广东省东莞市塘厦镇沙湖麒麟岭路 49 号
Manufacturer's Contact Information 制造商联系信息:	Manufacturer's Web Site 制造商网址:
刺型関析水 ib 巻: Phone:18124049199 Email: ybqa@yungbang.com	NUE TO MALE
Type/Model	shape: Prismatic
型号规格: YB753665	样品形状: 棱柱形
Appearance color: Blue	Sample size
样品颜色: 蓝色	样品尺寸: T(7.5mm)*W(36mm)*L(65mm)
Rated info.	Cell quantity
额定信息: 3.7V/2100mAh/7.77Wh	组成电芯数量: 1PCS
Quantity of sample: 30cells+18batteries	Cell model 7141 54
样品数量: 30 个电芯+18 个电池	电芯型号: YB 753565
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: 420mA	最大持续充电电流: 1050mA
Standard discharge current	Max continuous discharge current == 51
标准放电电流: 420mA	最大持续放电电流: 2100mA
Receiving date	Sample identification
接样日期: 2022-01-07	样品标识序号: B01#~B18#, C01#~C30#
Completing date	Test item: 8 items
完成日期: 2022-01-19	测试项目: 8 项

Test conclusion:

检测结论:

The Lithium-ion Battery submitted by Flipper Devices Inc are tested according to Section 38.3 of The Seventh Revised Edition of the United Nations Recommendations on the Transport of Dangerous 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 Flipper Devices Inc 送检的锂离子电池,依据联合国《关于危险 38.3 节进行检测,测试结果符合标准相关要求。

Date of issue:Fyb. 11, 2022

批 准 Approved by

段江涛

审 核 Reviewed by 邓兴勇

主 检 Tested by

徐志龙

准手册》第七修订版第

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Description and illustration of the sample:

样品说明及描述:

Test item 测试项目	Sample No. 样品编号	State 状态	Remark 备注
T4. T5	B01#~B05#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
T.1~T.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 Tian Su	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
7 an 54	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		11. 4.6			Ł
Descri	ption of	tne	sambling	procedure	1

取样程序的说明:

N/A

Description of report revision:

报告修订的说明:

Remarks:

备注:

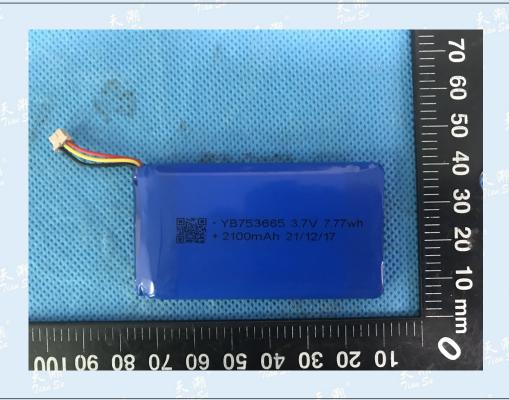
The Lithium-ion Battery submitted by Flipper Devices Inc are single cell batteries.

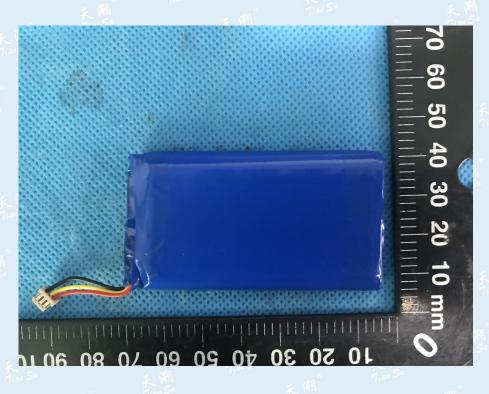
由 Flipper Devices Inc 所送的锂离子电池是单电芯电池。

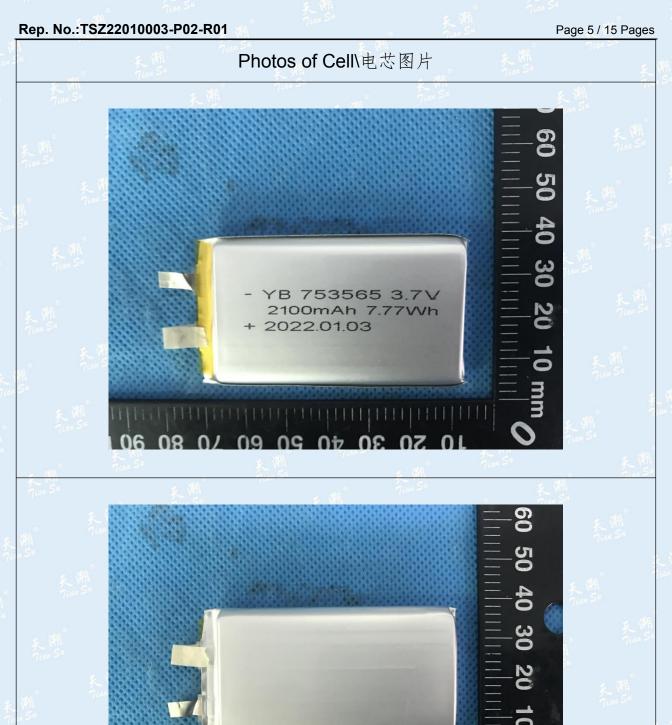


Photos of Battery\电池图片

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10 50 30 40 20 60 70 80 90

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38.3.4	Procedure/测记	式步骤					
天湖	Test 1: Altitud	le simulation/	测试 1: 高度模	拟	天湖	- year - m	
	at ambient ten	nperature (20±	5°C).		6kPa or less for a a 的环境中贮存不		美術 Tian Si
	Requirement/	 标准要求:	天寶	A Tina	. 48	7ian Su	
	1.Cells and ba	tteries Mass Io	ss limit: ≤0.2%	. 40			. 渊
38.3.4.1	样品质量损	失≤0.2%。					Р
30.3.4.1		- (0)		•	relating to voltag	e is not	9
	样品试验后:	开路电压应不值	5.于试验前开路		要求不适用于完全	全放完电的电池	· 天資 Tian S
				no rupture and r 无破裂以及无	no fire. 着火现象的发生。	* M 7ian Su	
	Result 测试结果	文 W	54 CV 757CV	<b>美潮</b>	7 ian Su	· · · · · · · · · · · · · · · · · · ·	天 M Tian Su
Sample No.	Before 测记		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#	35.239	4.179	35.228	4.176	0.03	99.93	Р
B02#	35.244	4.180	35.240	4.179	0.01	99.97	Р
B03#	35.248	4.180	35.241	4.175	0.02	99.89	7im Su P
B04#	35.247	4.180	35.243	4.177	0.01	99.92	Р
B05#	35.242	4.175	35.242	4.171	0.00	99.91	Р
B06#	35.244	4.176	35.237	4.172	0.02	99.91	Р
B07#	35.247	4.176	35.247	4.174	0.00	99.96	Р
B08#	35.239	4.175	35.239	4.170	0.00	99.88	I. P
B09#	35.237	4.177	35.230	4.172	0.02	99.89	Р
B10#	35.240	4.181	35.240	4.179	0.00	99.96	Р

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

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38.3.4	Procedure/测	试步骤					_
天潮	Test 2: Thern	nal test/测试 2	: 温度测试		<b>美洲</b>	- Team-	• 7
	72±2℃, follow The maximum procedure is t batteries are t 将电芯和电池 贮存不少于 6	ved by storage n time interval b to be repeated to be stored for 在温度为 72±2 个小时,两个选	for at least six between test te until 10 total cy 24 hours at an ℃的条件下贮存	hours at a test mperature extre cles are comple bient temperate 不少于 6 个小时 长为 30min,重约	temperature equemes in 30 minu ete, after which a ture (20±5℃). 时,然后,在温质	tes, This all test cells and	大湖 7ian Su 1ian Su 1an Su
38.3.4.2 Su	样品质量损 2.Open circuit	atteries Mass lo 失≤0.2%. t voltage not les	oss limit: ≤0.2% ss than 90%, Ti I batteries at ful	he requirement	relating to volta	yth ysa ge is not Wh Gun Sa	P 美淵 7ian Si
	样品试验后 和电芯。 3.No leakage	开路电压应不值 , no venting, no	低于试验前开路 o disassembly, ı	电压的 90%,此 no rupture and	要求不适用于完		KM 7ian Sa
0	Result 测试结果	7ian 54	天衛	天 MA 7ian Su	来。 和	例 ne Sa	·* 天赏
Sample No.	Befor 测记	e test 式前		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
B01#	35.228	4.176	35.210	4.155	0.05	99.49	Р
B02#	35.240	4.179	35.219	4.157	0.06	99.47	S P
B03#	35.241	4.175	35.223	4.155	0.05	99.52	P
B04#	35.243	4.177	35.225	4.159	0.05	99.57	Р
B05#	35.242	4.171	35.221	4.151	0.06	99.51	, P
B06#	35.237	4.172	35.219	4.152	0.05	99.53	Р
B07#	35.247	4.174	35.226	4.152	0.06	99.47	Р
1000	35.239	4.170	35.221	4.151	0.05	99.55	Р
B08#	00.200		2.90727				
B08#	35.230	4.172	35.216	4.150	0.04	99.47	P

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

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38.3.4	Procedure/测	训试步骤					
天湖。	Test 3: Vibra	ition/测试 3:振	动 71011 511	- 10	<b>毛</b> 潮	- Jean - "	· ĥ
	distorting the be a sinusoid Hz traversed each of three 将电芯和电池加至 200Hz,	cells in such a lal wave form win 15 minutes, Temutually perpe	manner as to fa th a logarithmio This cycle shall ndicular mount 表动台的台面上 刊 7Hz 为一个循	aithfully transmit c sweep betwee l be repeated 12 ting position of t ,然后开始振动 f环,一个循环指	n 7 Hz and 200 2 times for a tota he cell.	he vibration shall Hz and back to 7 I of 3 hours for 形式,以 7Hz 增	天 渊 7ian Su Ian Su
38.3.4.3	Requirement		180	天潮。	Trave	Man Fian S	P
	500	atteries Mass Io 损失≤0.2%.	oss limit: ≤0.2%	). <sup>7100</sup>			夫湖 Tian Su
	1	1000		4.00	relating to voltage	ge is not	
		to test cells and f开路电压应不低		138	ates. 要求不适用于完。	全放完电的电池	天湖 7ian Su
	_	e, no venting, no 4)应无漏液、无	1000	·	no fire. 着火现象的发生	7ian 5"  • • • • • • • • • • • • • • • • • • •	S u
z WA	Result 测试结果		天湖。 Miant Sil	7in#5"	天 710	W1 . 5°	天 渊 Tian S
Sample No.		re test 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#	35.210	4.155	35.199	4.153	0.03	99.94	Р
B02#	35.219	4.157	35.212	4.155	0.02	99.96	Р
B03#	35.223	4.155	35.216	4.153	0.02	99.94	P <sub>tian</sub> 5
B04#	35.225	4.159	35.218	4.156	0.02	99.92	Р
B05#	35.221	4.151	35.214	4.147	0.02	99.91	A. P.
B06#	35.219	4.152	35.212	4.151	0.02	99.98	Р
B07#	35.226	4.152	35.219	4.150	0.02	99.95	A P
B08#	35.221	4.151	35.210	4.146	0.03	99.89	Р
288	2000000		Sa 5.66		249	-	3 400 37.0

0.03

0.02

Ρ

Р

99.89

99.98

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

4.150

4.158

35.205

35.212

4.145

4.157

其他补充:测试结果"P"代表判定该测试项目通过。

35.216

35.219

B09#

B10#

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38.3.4	Procedure/测	试步骤					_
<b>毛洲</b>	Test 4: Shoc	k/测试 4: 冲击	k (III) Tian Su		夫鄉	77.an 5"	1
7 ian 5 ii 7 ian 5 ii 8	to a half-sine smaller) and publicable to a smaller) and publicable three shocks three mutually 以稳可分别,但是是一个人,我们可以不是一个人,我们可以不是一个人,我们就是我们就是一个人,我们就是一个人,我们就是一个人,我们就是我们就是一个人,我们就是我们就是一个人,我们就是我们就是一个人,我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们就是我们就是	shock of peak a pulse duration of a half-sine of peoulse duration of in the positive of perpendicular 固定住每个电之中的较小值)或进缓缓至18次本要求:atteries Mass lo失≤0.2%. t voltage not less to test cells and 开路电压应不信	acceleration of of 6 millisecond ak acceleration of 11 millisecond direction follows mounting position (本中主致的加速是与√(2000) 中的较近相垂直的电池: 中击。	150gn (or Acce s, large cells arn of 50gn (or Acceds. Each cell or ed by three shootions of the cell of 全部配件表面。双度撞击,脉冲持约小值)和脉冲持安装方位的正方	leration(gn)= \( \frac{\psi_0}{2} \) and large batteries celeration(gn)= battery shall be cks in the negative or battery for a to the point of the	shall be \( \square \frac{10000}{mas} \), which is subjected to we direction of that of 18 shocks. U以峰值为 150gn L池和大型电池组为半正弦波冲击。接着在反方向经	Fian Su P A Tian Su Fian Su
	样品(电池	)应无漏液、无	•	The state of the s	着火现象的发生。	例 Sa	
£ 1	Result/测试组	i果 ————————————————————————————————————	Mian D"	<u> </u>	VIA Su	<b>长湖</b>	7tan
Sample	S\$10	re test 式前	After Test 测试后		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
B01#	35.199	4.153	35.188	4.152	0.03	99.97	Р
B02#	35.212	4.155	35.201	4.153	0.03	99.96	Р
B03#	35.216	4.153	35.205	4.152	0.03	99.97	Р
B04#	35.218	4.156	35.207	4.153	0.03	99.93	Р
B05#	35.214	4.147	35.203	4.142	0.03	99.89	Jum P
B06#	35.212	4.151	35.201	4.149	0.03	99.94	Р
B07#	35.219	4.150	35.208	4.148	0.03	99.94	Р
B08#	35.210	4.146	35.199	4.143	0.03	99.92	P
B09#	35.205	4.145	35.198	4.141	0.02	99.90	Р
B10#	35.212	4.157	35.201	4.152	0.03	99.89	P

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

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38.3.4	Procedure/测试步骤	7100 54	天 鄉	
	Test 5: External short c	ircuit/测试 5:外部短路	The state of the s	
7iau Su 7iau Su 38.3.4.5	temperature reaches 57± condition with a total externation is continued for has returned to 57±4°C, to be concluded.  保持试验环境温度稳定在度下,将其正负极用小于	ested shall be temperature stabilized d.4℃ and then the cell or battery shall ernal resistance of less than 0.1 ohm at least one hour after the cell or battern the	be subjected to a short circuit at 57±4℃, This short circuit ery external case temperature r a further six hour for the test 度达到 57±4℃, 然后, 在此温力外表温度恢复到 57±4℃之后	天湖 Tian Si 湖 an Su P
	170℃; 电芯或电池的外壳温度	pture and no fire during the test and v	<b>夫溯</b>	
	Result 测试结果	大瀬 天瀬 Sa	夫渊 Tian Su E 渊	
Sample No. 样品编号	夫爾 Tian Su 天湖	Max External Temp 样品表面最高温度(℃)	7.cae Sa 天间 7.cae Sa 7.cae Sa	Test result 测试结果
B01#	<b>《</b> 溯	57.5 Fin S	天鄉	Р
B02#	K湖° 710150	58.1	天 湖	Р
B03#	Tran 5	700 Su 58.4	z 7/48	Tian Su P
	Jean Su	58.4	交例 <sup>®</sup> 7ian 5 <sup>ss</sup>	P
B04#				
B04# B05#	* Vill 7 iau 5	58.4	Time 7im	Р
Pian S	Film Su Tian Su	58.4 57.9	Tian Su	P P
B05#	Tian S Tian S Tian Su Tian Su Tian Su	gian Su	Tian Su Tian Su Tian Su Tian Su	- 8
B05# B06#	Tian Su Tean Su Tean Su Tean Su	57.9	Team Su  Team Su  Team Su  Team Su  Team Su  Team Su	Pian
B05# B06# B07#	Film Su	57.9	Tian Su	P P

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38.3.4	Procedure/测试步骤	_
天開 Tian Sa	Test 6: Crush\Impact/ 测试 6: 挤压(适用) 撞击(不适用)	
	Crush 挤压 来源 7tan 5d 大潮 7tan 5d 大潮	7 ian Si
	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.	M ian Su
	(a) The applied force reaches 13kN±0.78kN;	
	(b) The voltage of the cell drops by at least 100 mV;	S
	(c) The cell is deformed by 50% or more of its original thickness.	k)
	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 的速度慢慢进行,直到下面三个选项之一达到为止:	天道
	(a)作用力达到 13kN±0.78kN;	天湖
	(b)电池芯电压降至少达到 100mV;	7 ian >"
	(c)电池厚度和最初比较变形至少 50%。	45
	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。	\
	Impact 7200 500	u T
	撞击。	Tian
8.3.4.6	(applicable to cylindrical cells not less than 18mm in diameter)	Р
	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 greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A 9.1 kg ± 0.1 kg mass is to be dropped from a height of 61 ± 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.	天湖 7iau Su H Su
	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 ± 0.1 mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.	F. 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.	天 Wh 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。	用 S#
	Requirements/标准要求:  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℃;	天湖 Tian Sa
	2. No disassembly, no fire during the test and within six hours after this test.	
	试验后6小时内无解体、无起火。 2000年	(6:

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	Result 测试结果	天湖 7can Su 7can Su	7ian 54
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#	3.787 5 Sun Su	23.1	P- Vil
C02#	3.803	24.5	Р
C03#	3.797	23.2	. P
C04#	3.807	23.6 Fun Su	Р
C05#	3.812	24.9	Р
C06#	3.791	24.8	Р
C07#	3.784	23.2	P ian Si
C08#	3.814	23.8	Р
C09#	3.811	24.6	7 m P
C10#	3.807 £ 10	23.9 7 cm Su	Р

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

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38.3.4	Procedure/测试步骤	_			
	Test 7: Overcharge/测试 7: 过度充电				
	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.	) Jan 54			
38.3.4.7 M 71an Su 71an 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	é			
	OCV prior to test 试验前电压(V)	Test result 测试结果			
-	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
样品编号	试验前电压 (V)	测试结果			
样品编号 B11#	试验前电压 (V) 4.179	测试结果 P			
样品编号 B11# B12#	试验前电压 (V) 4.179 4.177	测试结果 P P			
样品编号 B11# B12# B13#	试验前电压 (V) 4.179 4.177 4.179	测试结果 P P			
样品编号       B11#       B12#       B13#       B14#	试验前电压 (V) 4.179 4.177 4.179 4.181	测试结果 P P P			
B12# B13# B14# B15#	武验前电压 (V)  4.179  4.177  4.179  4.179  4.179  4.181  4.178	P P P			

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38.3.4	Procedure/测试步骤	- 240	Tian S"	<u> </u>	_
天 湖 71cm 5m 天 湖 71cm 5m 38.3.4.8 天 湖 71cm 5m	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。				
	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)
C11#	3.331	P P	C21#	3.317	Pinian
C12#	3.321	P	C22#	3.302	Р
C13#	3.339	Р	C23#	3.292	P
C14#	3.313	Pw	C24#	3.331	Р
C15#	3.299	P	C25#	7 3.319 §	Р
C16#	3.349	Р	C26#	3.311	Р
C 10#		71an 5" P	C27#	3.347	P
C10#	3.299	Р	10		
- ×40	3.299	P P	C28#	3.293	Р
C17#	4. \(\frac{10}{2}\)	<u> </u>	C28#	3.293 3.325	70P <sup>S"</sup>

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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。