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检测报告 UN38.3

Name	of sample:	F VIII 7 iau Su P	olymer Lithium ion Battery	
	产品名称:	天湖 7tar Sa 湖	聚合物锂离子电池	天湖
	Client:	天 讲 Tian S	- Cu	A.
	委托单位:	天湖	# 18B	su F. V
Cla	ssification:	天湖 Tian Su	Commission Test	湖 .5" : 湖
	检测类别:	CVIII ian Su 天湖 [®]	委托测试 失端	7ian Su

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

Trade mark: -

Rep. No.:TCTTJ20210401598ZB-BR08

Name of samples: Polymer Lithium ion Battery

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Name of Samples. Forymer Limitin for Dattery	Haue Haik
样品名称:聚合物锂离子电池	商标: -
	1
Type/Model	shape: Prismatic
型号规格: 502030	样品形状: 棱柱形
Appearance color: Silver	Sample size
样品颜色: 银色	样品尺寸: T(4.91mm)*W(19.83mm)*L(31.03mm)
Rated info.	Cell quantity
额定信息: 3.7V/200mAh/0.74Wh	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: 502030
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: 40mA	最大持续充电电流: 200mA
Standard discharge current 标准放电电流: 40mA	Max continuous discharge current 最大持续放电电流: 200mA
Time 5"	Z VIII 2
Receiving date 接样日期: 2024.5.09	Sample identification 样品标识序号: B1#~B18#,C1#~C30#
Su Su MA	Test item: 8 items
Completing date 完成日期: 2024.5.14	测试项目: 8 项
Test conclusion:	THE TOTAL OF THE T
检测结论:	

The Polymer Lithium ion Battery submitted by

tel are tested according to Section 38.3 of the Sixth Revised Edition Amendment 1 of the Recommendations on the Transport of Dangerous Good, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.6/Amend.1/Section38.3). The test results comply with relevant cuirements of the standard.

> Date of issue:May 17, 2024 签发日期: 2024年5月17日

批准\Approved by 技术负责人\ Technology Supervisor



审核\Reviewed by 项目工程师\ Project Engineer



主检\Tested by 测试工程师\ Test Engineer



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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	Remark 备注
州 T 4 T F	B1#~B5#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
T.1~T.5	B6#~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"	C1#~C5#	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	C6#~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

Description of the sampling procedure:	III Su	≠ M [°]	7 ian		Tian S
取样程序的说明:					
N/A	gian Su		天哪	1000	284
Description of report revision:			Mian 2"		7ian Su
报告修订的说明:					

Remarks:

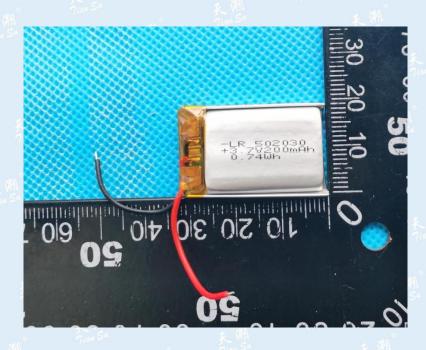
备注:

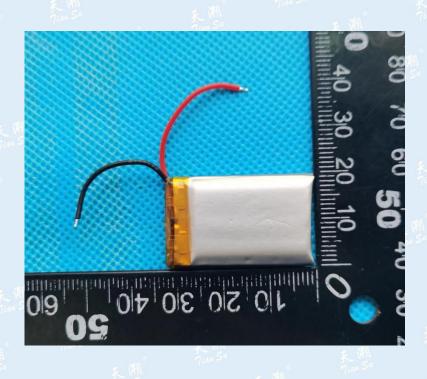
The Polymer Lithium ion Battery submitted by are single cell batteries.



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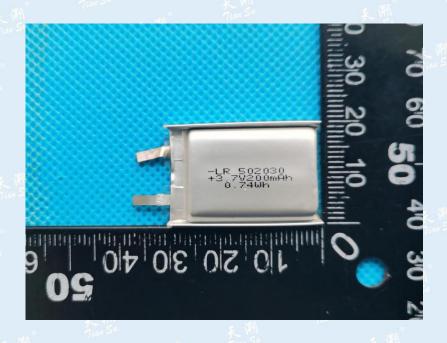






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Photos of Cell\电芯图片





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38.3.4	Procedure/测记	式步骤		美洲 Tian Sii		美潮	ian Sw
美潮	Test 1: Altitud	de simulation/	测试 1: 高度模	拟	天衛.	-7; can 5"	70
Pian Su 美潮	at ambient ten	nperature (20±	5°C).		6kPa or less for a i 的环境中贮存不	iA Sw	
38.3.4.1 200 St	Requirement/ 1.Cells and ba 样品质量损 2.Open circuit applicable to 样品试验后 和电芯。 3.No leakage,	际准要求: Itteries Mass lo 失≤0.2%。 voltage not les test cells and 开路电压应不值	ss limit: ≤0.2% ss than 90%, Th batteries at full 氐于试验前开路口 disassembly, n	de requirement discharged sta 电压的 90%,此。 o rupture and r	relating to voltagates. 要求不适用于完全	ge is not 全放完电的电池	· M · Inn S ¹ P · F · F · F · Tinn Su
無 7	样品(电池) Result 测试结果)应无漏液、无	.排气、无解体、	无破裂以及无	着火现象的发生。	· Time -	天间 Tian Su
Sample No.	Before 测记		50	· 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
B1#	5.341	4.164	5.341	4.164	0.00	100.00	P
B2#	5.328	4.164	5.328	4.164	0.00	100.00	Р
B3#	5.334	4.166	5.333	4.164	0.02	99.95	Tim Su P
B4#	5.344	4.167	5.344	4.167	0.00	100.00	Р
B5#	5.344	4.185	5.344	4.185	0.00	100.00	Р
B6#	5.344	4.179	5.344	4.179	0.00	100.00	P
B7#	5.334	4.164	5.334	4.164	0.00	100.00	Р
B8#	5.335	4.176	5.334	4.174	0.02	99.95	, P
B9#	5.341	4.178	5.341	4.178	0.00	100.00	Р
B10#	5.334	4.176	5.334	4.176	0.00	100.00	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					_
天佛	Test 2: Thern	nal test/测试 2	: 温度测试		天徽	71 an 2"	Ť
	72±2℃, follow The maximum procedure is to batteries are to 将电芯和电池 贮存不少于 6	ved by storage n time interval b o be repeated to be stored for 在温度为 72±2 个小时,两个选	for at least six petween test te until 10 total cy 24 hours at an ℃的条件下贮有	hours at a test mperature extre cles are comple nbient tempera 本不少于 6 个小 长为 30min,重约	temperature equemes in 30 minu ete, after which a ture (20±5℃). 时,然后,在温力	tes, This all test cells and	Film Tian Su Tian Su
38.3.4.2	样品质量损	atteries Mass lo 失≤0.2%.	oss limit: ≤0.2%		Tim 54	天衛 Tian S a S a	P 天湖 7ian Si
	applicable t 样品试验后 和电芯。 3.No leakage,	o test cells and 开路电压应不位 no venting, no	l batteries at ful 氐于试验前开路 o disassembly, i	ll discharged st 电压的 90%,此 no rupture and	要求不适用于完	全放完电的电池	天瀬 7ian Su
	Result 测试结果	Fran Sn	长潮	K WA 7ian Su	* F.	例 as Sa	5·1 天門
Sample No.	Before 测证			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
B1#	5.341	4.164	5.339	4.141	0.04	99.45	Р
B2#	5.328	4.164	5.326	4.142	0.04	99.47	Р
B3#	5.333	4.164	5.331	4.143	0.04	99.50	Р
B4#	5.344	4.167	5.342	4.144	0.04	99.45	Р
B5#	5.344	4.185	5.342	4.161	0.04	99.43	P
B6#	5.344	4.179	5.342	4.157	0.04	99.47	Р
B7#	5.334	4.164	5.332	4.142	0.04	99.47	Р
B8#	5.334	4.174	5.332	4.152	0.04	99.47	Р
	5.341	4.178	5.339	4.154	0.04	99.43	P
B9#	0.041	280	(haster -				A.S. C.

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/	则试步骤					_
天湖	Test 3: Vibra	ation/测试 3:振	动 7005		天湖	-71:an 5"	
	distorting the be a sinusoid Hz traversed each of three 将电芯和电池加至 200Hz,	e cells in such a dal wave form wi in 15 minutes, e mutually perpe 也牢固地安装在损	manner as to faith a logarithmic This cycle shall endicular mount 表动台的台面上 到 7Hz 为一个循	aithfully transmi c sweep betwee be repeated 12 ing position of t ,然后开始振动 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 Si Jan Su
38.3.4.3	Requirement	2 FA	7 N _ M 21 12 9	C, O 1 /1 / H1 0	7,002	· 大概	Р
30.3.4.3 *********************************	1.Cells and b 样品质量 2.Open circu applicable	patteries Mass lo 损失≤0.2%. it voltage not les to test cells and	ss than 90%, TI I batteries at ful	ne requirement Il discharged sta		-100	天淵 7ian S
	和电芯。 3.No leakage	e, no venting, no	o disassembly, ı	no rupture and i	要求不适用于完全no fire. 着火现象的发生。		7ian Su
	Result 测试结果		人 大 (1)	、	有	所 以S ^a	u Rian
Sample No.	A	re test 试前		r Test 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
B1#	5.339	4.141	5.339	4.141	0.00	100.00	Р
		4.142	5.325	4.142	0.02	100.00	Р
B2#	5.326	4.142		107 (EUL)		D/233	•
B2# B3#	5.326	4.142	5.331	4.143	0.00	100.00	Pian

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

4.161

4.157

4.142

4.152

4.154

4.151

5.342

5.342

5.332

5.332

5.338

5.332

4.159

4.157

4.142

4.152

4.151

4.151

0.00

0.00

0.00

0.00

0.02

0.00

99.95

100.00

100.00

100.00

99.93

100.00

P

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。

5.342

5.342

5.332

5.332

5.339

5.332

B5#

B6#

B7#

B8#

B9#

B10#

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38.3.4	Procedure/测	试步骤					_
天湖。	Test 4: Shoc	k/测试 4: 冲击	F VIII Tian Su	31	天哪	Team > "	7
Film Su Film Su Film Su Film Su Film Su 38.3.4.4	to a half-sine smaller) and publicated to a smaller) and publicated to a smaller) and publicated three shocks three mutually 以稳固的托架(或与《100859》 须经受最大加每个电池或电	shock of peak a pulse duration of a half-sine of pe pulse duration of in the positive of y perpendicular 固定住每个电芯 中的较小值)的 速度 50gn(或-	acceleration of a f 6 millisecond ak acceleration of 11 millisecond irection follows mounting posit 和电池样品的。	150gn (or Access, large cells are of 50gn (or Access, Each cell or ed by three short ions of the cell 全部配件表面。及實達击,脉冲持约小值)和脉冲持	eleration(gn)= \(\frac{1}{2} \) and large batteries celeration(gn)= battery shall be cks in the negation or battery for a to	shall be \(\square \frac{100000}{mas} \), which is subjected to be direction of otal of 18 shocks. U以峰值为 150gn L池和大型电池组为半正弦波冲击。	P Pian Su P P
	样品质量损 2.Open circui applicable t 样品试验后 和电芯。 3.No leakage 样品(电池	atteries Mass lo 失≤0.2%. t voltage not les to test cells and 开路电压应不作 , no venting, no)应无漏液、无	ss than 90%, Th batteries at ful 氐于试验前开路 disassembly, r	ne requirement I discharged sta 电压的 90%,此 no rupture and i	要求不适用于完全	全放完电的电池	之 開 7ian 54 1 4
	Result/测试组	音朱 re test	Affa	r Test	5.	£ M	
Sample No.	Sin	式前		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
B1#	5.339	4.141	5.338	4.141	0.02	100.00	Р
B2#	5.325	4.142	5.325	4.142	0.00	100.00	Р
B3#	5.331	4.143	5.331	4.143	0.00	100.00	P
B4#	5.342	4.144	5.342	4.144	0.00	100.00	Р
B5#	5.342	4.159	5.342	4.157	0.00	99.95	7 P
B6#	5.342	4.157	5.342	4.157	0.00	100.00	Р
B7#	5.332	4.142	5.332	4.142	0.00	100.00	Р
	144	1,00201					
B8#	5.332	4.152	5.332	4.152	0.00	100.00	P

0.00

100.00

Ρ

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

4.151

5.332

4.151

其他补充:测试结果"P"代表判定该测试项目通过。

5.332

B10#

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38.3.4	Procedure/测试步骤	Train Sil	毛 塑	_
天湖	Test 5: External short circui	t/测试 5: 外部短路	- Jean -	
7;au 54 7;au 54 38.3.4.5	temperature reaches 57±4℃ condition with a total external condition is continued for at le has returned to 57±4℃, the coto be concluded. 保持试验环境温度稳定在 57±6度下,将其正负极用小于 0.1	d shall be temperature stabilized so that and then the cell or battery shall be stresistance of less than 0.1 ohm at 50 ast one hour after the cell or battery ell or battery must be observed for a fell of the cell of battery must be observed for a fell of battery must be observed for a fel	subjected to a short circuit 7±4℃, This short circuit external case temperature further six hour for the test 到 57±4℃, 然后, 在此温表温度恢复到 57±4℃之后	利 Tian S M ian Su P
	Requirement/标准要求:	长端	z Ma Gian S	
	170℃ ; 电芯或电池的外壳温度应不	and no fire during the test and within	美潮	
	Result 测试结果	Film Su	天湖 7ian Su	6 inu 5"
Sample No. 样品编号	· · · · · · · · · · · · · · · · · · ·	Max External Temp 样品表面最高温度(℃)	た道 天瀬 Tian S*	Test result 测试结果
B1#	美潮	Tian Su Su Su Su Su	天湖	P
B2#	人 鄉 7100 500	58.1	天潮 7000	Р
B3#	Tian S	57.4	采潮	Tian Su P
B4#	7 ian 5"	57.7 £	1 7ian 5"	Р
B5#	K VIII 7 ian Su	57.8	7ian	Р
B6#	Tian Su	F. WA 57.5	Tian Su	Р
B7#	天闸 Tian Su	58.6	天 Mil 71au Su	Р
D0#	Tian Su K	57.4	7 can Su	₹ P
B8#		₹~ '\}	- A	_
В9#	天湖	58.5	7 jan 54	Р

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88.3.4	Procedure/测试步骤	_
天期 7ian Su	Test 6: Crush\Impact/ 测试 6: 挤压(适用) 撞击(不适用)	
	Crush 挤压 採用	7 ion S
	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 ian Su
	(a) The applied force reaches 13kN±0.78kN;	
	(b) The voltage of the cell drops by at least 100 mV;	8
	(c) The cell is deformed by 50% or more of its original thickness.	
	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 V Tian
	行,直到下面三个选项之一达到为止:	- 3MA
	(a)作用力达到 13kN±0.78kN;	7ian Su
	(b)电池芯电压降至少达到 100mV;	0.96
	(c)电池厚度和最初比较变形至少 50%。	6
	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 撞击 Su Xiiii	美
246	(applicable to cylindrical cells not less than 18mm in diameter)	7/44
3.3.4.6	The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm ±	Р
	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 Tian Su 用 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.	710
	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.	R VIII 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。	报 5#
	Requirements/标准要求:	
	1.Cells and component cells meet this requirement if their external temperature does not exceed 170°C;	天侧
	电芯的外壳温度应不超过 170℃;	Time 2"
	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。	

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u.	Result 测试结果	天闸 Tian Su Fian Su	Jian Sii 多
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
C1#	7100 Su 3.817 5 MA	24.6	Pian Su
C2#	3.783	24.2 7 m 5 m	Р
C3#	3.795	23.4	. P
C4#	3.829	24.6 KM	Р
C5#	3.802	24.7	Р
C6#	3.811	24.1	Р
C7#	3.785	24.2	Pian Su
C8#	3.799	23.1	Р
C9#	3.816	24.6	7:00 P
C10#	3.813 £ Wh	24.1 7 cm Su	ВР

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	ija (
	When the manufacturer's recommended charge voltage is not more than 18V, the minimular voltage of the test shall be the lesser of two times the maximum charge voltage of the or	* William S
	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.	ian Su P
88.3.4.7	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。	充
	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。	Figure S
	Result Su Su	1,000
	测试结果	
Sample No. 样品编号	测试结果 OCV prior to test 试验前电压(V)	Test result 测试结果
-	OCV prior to test	140
样品编号	OCV prior to test 试验前电压(V)	测试结果
样品编号 B11#	OCV prior to test 试验前电压(V) 4.164	测试结果
样品编号 B11# B12#	OCV prior to test 试验前电压(V) 4.164 4.164	测试结果 P P
样品编号 B11# B12# B13#	OCV prior to test 试验前电压(V) 4.164 4.164 4.165	测试结果 P P
样品编号 B11# B12# B13# B14#	OCV prior to test 试验前电压(V) 4.164 4.164 4.165	测试结果 P P P
B11# B12# B13# B14# B15#	OCV prior to test 试验前电压(V) 4.164 4.165 4.167 4.185	P 7100 P 710 P P

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38.3.4	Procedure/测试步骤	****	gian Su		_
天湖 7ian Su 7ian Su 38.3.4.8 天湖 7ian Su 天湖 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。				A
					美潮 Tion Si Tion Sip
					天海 Trans
	Result 测试结果	- 7ias-	天開 7ian Sa	大MA Tian Si 天 湖 Tian Su	K MA 7ian Su
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 resul 测试结果
C11#	7 3.344	K M P	C21#	3.299	Prim
C12#	3.291	P	C22#	3.323	Р
C13#	3.307	Р	C23#	3.338	Р
C14#	3.345	P	C24#	3.302	Р
	3.333	7:	C25#	3.328	Р
C15#					the second second
C15#	3.323	Р	C26#	3.313	Р
10.00	3.323	P P	C26#	3.313 3.299	P P
C16#	1 S4	<u> </u>		9 7 m 5"	* 1
C16#	3.297	Z WN 7600 S ⁴¹ P	C27#	3.299	P ^{7tan}

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STATEMENTS

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- 1. The test report is invalid without the official stamp of Tiansu. 本报告无检测单位印章无效。
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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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