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检测报告 UN38.3

ame	of sample:	Lithium Ion Battery
	产品名称:	理离子电池 第一次 理离子电池
	Client:	Shenzhen Fitorch Electronic Technology Co., Ltd.
	委托单位:	深圳市朗铂电子科技有限公司
Cla	ssification:	Commission Test
	检测类别:	元

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

B/1,4, NO.2 Jinlong Road, Longgang District, Shenzhen, China 深圳市龙岗区宝龙街道锦龙大道 2 号 1 栋、4 栋

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UN38.3



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Rep. No.:1C11J20200704698ZB-BR01	Page 2 / 14 Pages
Name of samples: Lithium Ion Battery	Trade mark: -
样品名称: 锂离子电池	商标: -
Commissioned by: Shenzhen Fitorch Electronic Technology Co., Ltd. 委托单位: 深圳市朗铂电子科技有限公司	Commissioner address: 6F, Longsheng Commercial Building, No. 368, Heping West Road, Dalang Street, Longhua District, Shenzhen 委托单位地址: 深圳市龙华区大浪街道和平西路 368 号龙胜商业大厦 6F
Manufacturer by: SHENZHEN HUAFU LITHIUM SOURCE TECHNOLOGY CO., LTD. 制造单位: 深圳市华富锂源科技有限公司	Manufacturer address: B408, Shangrong Building, 2 Baolong 7th Road, Baolong Street, Longgang District, Shenzhen 制造单位地址: 深圳市龙岗区宝龙街道宝龙七路 2 号尚荣楼 B408
Manufacturer's Contact Information	Manufacturer's Web Site
制造商联系信息:	制造商网址:
Phone: 13048852928 Email: 2763311955@qq.com	-
Type/Model	shape: Cylindrical
型号规格: 26350 3.7V 2000mAh	样品形状: 圆柱形
Appearance color: Blue	Sample size
样品颜色: 蓝色	样品尺寸: D(25.98mm)*H(35.10mm)
Rated info.	Cell quantity
额定信息: 2000mAh\7.4Wh\3.7V	组成电芯数量: N/A
Quantity of sample: 40cells	Cell mode
样品数量: 40 个电芯	电芯型号: N/A
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: 400mA	最大持续充电电流: 2000mA
Standard discharge current	Max continuous discharge current
标准放电电流: 400mA	最大持续放电电流: 6000mA
Receiving date	Sample identification
接样日期: 2020 年 7 月 12 日	样品标识序号: 1#-40#
Completing date	Test item: 7 items
完成日期: 2020 年 7 月 21 日	测试项目: 7 项
Test conclusion:	7- S

Test conclusion:

检测结论:

The Lithium Ion Battery submitted by Shenzhen Fit orch sleaters in Technology 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/, men. 1/Section38.3) one test results comply with the relevant requirements of the standard.

由深圳市朗铂电子科技有限公司送检的锂离子电也,依据《关于危险品代物运输的建议书》试验和标准手册第六修订版修正 1 第 38.3 节进行检测,测试结果符合标准相关要求。

Date of Sue. July 22,2020 签发日期: 2020 年 7 月 22 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	Sample No.	State 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;	Cell
1.1~1.5	6#~10#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电芯
e Tian Su	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 £ Wh Tian Su	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
T.7	1	大湖 Tian Su 大湖 Tian Su	N/A
k VATA 7 an Su	人洲	Tian Sa Tian Sa	不适用
T.8	21#~30#	at first cycle in fully discharged states; 在第一个循环完全放电;	Cell
1.0	31#~40#	after 25 cycles ending in fully discharged states; 在第二十五个循环完全放电;	电芯

		_		
$\overline{}$	1	- E 1	!	procedure:
	Decrintion	OT TOO	campling	nrocadiira.

取	样	程	序	的	说	眀	•
-1/		1	/ 」	H J	$\nu_{\rm LL}$. / 1	

Description of report revision:

报告修订的说明:

Remarks:

备注:

The Lithium Ion Battery submitted by Shenzhen Fitorch Electronic Technology Co., Ltd. are single cell.

由深圳市朗铂电子科技有限公司所送的锂离子电池是单电芯。

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Photos of cell\电芯图片





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38.3.4	Procedure/测记	式步骤 700.5	yea .	美剛 Tian Sii		天湖	rian >"_		
天湖	Test 1: Altitud	de simulation/	测试 1: 高度模	拟	天湖。	-7ean-"	, fi		
天湖。	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。								
7:as 2"	Requirement/	标准要求:	美 豐	A 710°	- MA	7ian Su	0		
* 7	1.Cells and ba	tteries Mass lo	ss limit: ≤0.2%				_ M		
38.3.4.1	样品质量损	失≤0.2%。					/as ≥ P		
£ M 71as Su	applicable to	o test cells and	batteries at full	l discharged sta	relating to voltag ates. 要求不适用于完全		\$ 7 6		
	和电芯。	万两 七 座四个下		- 1/12 HV 30 10, INC.	700	54			
天湖	3.No leakage,	no venting, no	disassembly, n	o rupture and r	no fire.				
- 1200-	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。								
和 Su	Result 测试结果	天 Yi Tian S		天湖	Fian 54	4 潮	夫剛 7ian Su		
Sample No.	18	Before test 测试前		After Test 测试后		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#	45.659	4.174	45.657	4.172	0.00	99.95	P		
2#	45.655	4.177	45.654	4.175	0.00	99.95	Р		
3#	45.662	4.174	45.660	4.172	0.00	99.95	Tian Su P		
4#	45.654	4.175	45.652	4.173	0.00	99.95	Р		
5#	45.662	4.172	45.660	4.170	0.00	99.95	Р		
6#	45.657	4.174	45.656	4.172	0.00	99.95	P		
7#	45.663	4.176	45.661	4.174	0.00	99.95	Р		
8#	45.658	4.177	45.657	4.175	0.00	99.95	K P		
9#	45.661	4.176	45.660	4.174	0.00	99.95	Р		
10#	45.664	4.174	45.662	4.172	0.00	99.95	Р		

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

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38.3.4	Procedure/测	试步骤					_		
天概	Test 2: Thern	nal test/测试 2	: 温度测试		天洲	71 (an -)			
	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 le		ne requirement	t relating to volta	ge is not	P Francis		
	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								
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		
1#	45.657	4.172	45.655	4.160	0.00	99.71	Р		
2#	45.654	4.175	45.652	4.163	0.00	99.71	S P		
3#	45.660	4.172	45.658	4.160	0.00	99.71	Р		
4#	45.652	4.173	45.650	4.162	0.00	99.74	Р		
5#	45.660	4.170	45.658	4.160	0.00	99.76	Р		
6#	45.656	4.172	45.654	4.161	0.00	99.74	Р		
7#	45.661	4.174	45.659	4.163	0.00	99.74	Р		
8#	45.657	4.175	45.655	4.164	0.00	99.74	P		
9#	45.660	4.174	45.658	4.163	0.00	99.74	P		
10#	45.662	4.172	45.660	4.161	0.00	99.74	Р		

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

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38.3.4	Procedure/测	试步骤							
天湖。	Test 3: Vibra	tion/测试 3: 拢	表		毛侧	-71an - " - 281	1)		
	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: 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。								
	_	- 340	1100	no rupture and 、无破裂以及无	no fire. 着火现象的发生	. F.			
	Result 测试结果	7.45	天湖 Prian Su	Tean Su	渊。 天7:0	VAN 5*	K 7ia		
Sample No.		re test 式前		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		
1#	45.655	4.160	45.653	4.158	0.00	99.95	Р		
2#	45.652	4.163	45.650	4.161	0.00	99.95	Р		
ощ	45.050	4.460	AF 057	4.450	0.00	00.05	K		

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
1#	45.655	4.160	45.653	4.158	0.00	99.95	Р
2#	45.652	4.163	45.650	4.161	0.00	99.95	Р
3#	45.658	4.160	45.657	4.158	0.00	99.95	Pian Su
4#	45.650	4.162	45.649	4.160	0.00	99.95	Р
5#	45.658	4.160	45.656	4.158	0.00	99.95	Pu Pu
6#	45.654	4.161	45.652	4.159	0.00	99.95	Р
7#	45.659	4.163	45.657	4.161	0.00	99.95	Р
8#	45.655	4.164	45.653	4.162	0.00	99.95	P
9#	45.658	4.163	45.656	4.161	0.00	99.95	P
10#	45.660	4.161	45.658	4.159	0.00	99.95	Р

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

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38.3.4	Procedure/测	11试步骤					ias > " _		
天湖	Test 4: Shoc	:k/测试 4: 冲击	7 ian Su		未 溯	- MA	700		
天湖 Tian Su Fian Su Fian Su	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)= $\sqrt{\frac{100850}{mus}}$, 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)= $\sqrt{\frac{100000}{mus}}$, 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.								
38.3.4.4	(或与√(100850) 须经受最大加 每个电池或电	中的较小值)的 ɪ速度 50gn (或-	半 <u>正弦</u> 的加速 $\int_{\sqrt{\frac{30000}{anss}}}$ 中的较 \int 相垂直的电池	度撞击,脉冲持约 小值)和脉冲持	续 6 毫秒,大型电 续时间 11 毫秒的	型以峰值为 150gn 型池和大型电池组 的半正弦波冲击。 接着在反方向经	P F W Tim Su		
元an Su Fran Su 系 Su Fran 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。								
美洲	Result/测试结果								
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		
1#	45.653	4.158	45.652	4.156	0.00	99.95	Р		
2#	45.650	4.161	45.648	4.159	0.00	99.95	Р		
3#	45.657	4.158	45.656	4.156	0.00	99.95	Plan Su		
4#	45.649	4.160	45.647	4.158	0.00	99.95	Р		
5#	45.656	4.158	45.654	4.156	0.00	99.95	Р		
6#	45.652	4.159	45.650	4.157	0.00	99.95	Р		
7#	45.657	4.161	45.655	4.159	0.00	99.95	Р		
8# Tian :	45.653	4.162	45.651	4.160	0.00	99.95	Р		
9#	45.656	4.161	45.654	4.159	0.00	99.95	Р		
10#	45.658	4.159	45.656	4.157	0.00	99.95	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 5: External short circuit/测试 5: 外部短路	
	The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches $57\pm4^{\circ}\mathrm{C}$ 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 $57\pm4^{\circ}\mathrm{C}$, This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to $57\pm4^{\circ}\mathrm{C}$, the cell or battery must be observed for a further six hour for the test to be concluded.	天) Tian S
38.3.4.5	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。	Р
	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℃;	天谱 Tian S
	2. No disassembly, no rupture and no fire during the test and within six hours after this test. 试验后 6 小时内无解体、无破裂、无起火。	天 例 7ian Su
	Result 测试结果	in a second
Sample No. 样品编号	Max External Temp 样品表面最高温度(℃)	Test result 测试结身
1#	117.6 Tun 50 A. W.	Р
2#	120.4	Р
3#	7 m 5 m 117.4 5 m	Pian Sn P
4#	7 Tran 54 7 Tran 54	Р
5#	天 ^湖 111.8 湖 7 ^{tus 5}	Р
6#	120.4 F VIII	Р
7#	122.7 大湖 ()	P
	117.6 Time 5"	Р
8#		& MA
9#	7100 50 114.7 KM	7 car P

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38.3.4	Procedure/测试步骤	
天湖 Tian Su	Test 6: Crush\Impact/ 测试 6: 挤压(不适用) 撞击(适用)	7
	Crush Pian Su 挤压 来順 Pian Su Pian Su Pian Su	天湖 Tian Sa
	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;	
	(b) The voltage of the cell drops by at least 100 mV;	3
	(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 的速度慢慢进行,直到下面三个选项之一达到为止:	夫 渊 7ian Si
	(a)作用力达到 13kN±0.78kN;	₹ ₩
	(b)电池芯电压降至少达到 100mV;	7 ian 54
	(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。	J.
	Impact Trans	W
	撞击 50	
38.3.4.6	(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.	天開 7ian Su 用 Sa
	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.	天 V 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.	天湖 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。	N Su £
	Requirement/标准要求:	Tian
	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℃;	天潮
	电心的外元温度应不超过 170 C; 2. No disassembly, no fire during the test and within six hours after this test.	7ian 5"
	试验后 6 小时内无解体、无起火。	

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	Result 测试结果	天明 Tian Su Tian Su Finn 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 P	
11#	3.756 Jun Su	122.7		
12#	3.744	120.4 Team St	Р	
13#	3.752	117.7	. ₽	
14#	3.736	116.4 Fun Su	Р	
15#	3.722	116.9	Р	
16#	3.741	117.8 K	Р	
17#	3.752	119.6	Pian S	
18#	3.729	118.4	Р	
19#	3.736	119.6	Tian P	
20#	3.747	114.4 7 m 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			
天湖 7ian 54 7ian 54 38.3.4.7 湖 7ian 54	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. 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			

其他补充:测试结果"N/A"代表不适用。

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38.3.4	Procedure/测试步骤	wite.	7,015"	天 塑	_	
天湖 7ian Su 天7i 38.3.4.8 第 7ian Su 天7i	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.					
	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 resu 测试结果
21#	7600 ⁵⁴ 3.304	K M P	31#	3.317	P	
22#	3.314	P	32#	3.321	Р	
23#	3.318	Р	33#	3.319	P	
24#	3.306	Р	34#	3.324	Р	
25#	3.321	P	35#	71an 54 3.311	Р	
26#	3.307	Р	36#	3.318	Р	
27#	3.318	7ian Su P	37#	3.314	Р ^{7/4}	
28#	3.314	P 7	38#	3.316	Р	
29#	3.311	Р	39#	3.317	7"P5"	
	3.306	Р	40#	3.316 Field Se	Р	

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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.

未经本试验室书面同意,不得部分地复制本报告。

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。

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。

