





中国认可 国际互认 检测 TESTING CNAS L5138

Rep.No.:TSZ22030333-P01-R01

Page 1 / 16 Pages

检测报告 UN38.3

ame	me of sample: — 产品名称: — Odel/型号规格: — Client: — 委托单位: — Classification:	Solid-State Lithium-ion Battery Pack				
	产品名称:	固态锂离子电池组	Ť.			
Mode	川型号规格:	PL10374172-22.2V-22Ah				
	Client:	Beijing WeLion New Energy Technology Co.,Ltd.				
	委托单位:	北京卫蓝新能源科技有限公司	Ĭ			
Clas	ssification:	Commission Test				
	检测类别:	が				

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

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

Web: www.tiansu.org E-mail: tsjc@tiansu.org Tel: 0755-89457984



UN38.3



Page 2 / 16 Pages

Name of samples: Solid-State Lithium-ion Battery Pack	Trade mark: -
样品名称: 固态锂离子电池组 Commissioned by: Beijing WeLion New Energy Technology Co.,Ltd. 委托单位: 北京卫蓝新能源科技有限公司	商标: - Commissioner address: No. 1, West Qihang Street, Doudian Town, Fangshan District, Beijing 委托单位地址: 北京市房山区窦店镇启航西街 1 号
Manufacturer by: Jiangsu WeLion New Energy Battery Co.,Ltd. 制造单位: 江苏卫蓝新能源电池有限公司	Manufacturer address: NO.30 Hongchang Road, Zhongguancun Industrial Park,Liyang, Jiangsu Province, China. 制造单位地址: 江苏省溧阳市中关村产业园宏昌路 30 号
Manufacturer's Contact Information 制造商联系信息: Phone: 13951854956 Email: Imiao@solidstalelion.com	Manufacturer's Web Site 制造商网址:
Type/Model	Shape: Prismatic Shape
型号规格: PL10374172-22.2V-22Ah	样品形状: 棱柱形
Appearance color: Black	Sample size
样品颜色: 黑色	样品尺寸: L(195.0mm)*W(78.00mm)*H(67.00mm)
Rated info.	Cell quantity
额定信息: 22.2V/22Ah/488Wh	组成电芯数量: 6PCS
Quantity of sample: 30cells+16batteries	Cell model
样品数量: 30 个电芯+16 个电池	电芯型号: PL10374172-22Ah
Limited charge voltage	Cut-off voltage
充电限制电压: 25.2V	放电截止电压: 16.8V
Standard charge current	Max continuous charge current
标准充电电流: 11A	最大持续充电电流: 44A
Standard discharge current	Max continuous discharge current
标准放电电流: 11A	最大持续放电电流: 66A
Receiving date	Sample identification
接样日期: 2022/04/07	样品标识序号: C01#~C30#, B01#~B16#
Completing date	Test item: 8 items
完成日期: 2022/04/18	测试项目: 8 项
Test conclusion:	SEA TEN

Test conclusion:

检测结论:

The Solid-State Lithium-ion Battery Pack submitted by Beijing WeLion New Energy Technology Co.,Ltd 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.

由北京卫蓝新能源科技有限公司送检的固态锂离子电池组,依据联合国《关于危险货物运输的建议者、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: Apr 2022

签发日期:2022.04.20

批准 Approved by

段江海

审核 Reviewed by 邓兴勇

主人 (01-03) Tested by

徐志龙

Page 3 / 16 Pages

Description and illustration of the sample:

样品说明及描述:

Toot itom	Sample No.	State Transit	Remark
Test item		S 61.00 54 54 55 161 5 161 161 161 161 161 161 161 16	
测试项目	样品编号	状态 9445	备注
T.1~T.5	B01#~B04#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
洲 1.1~1.5 10 i s s s s s s s s s s s s s s s s s s s	B05#~B08#	after 25 cycles ending in fully charged states; 在第二十五个循环完全充电;	电池
天湖 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	B09#~B12#	at first cycle in fully charged states; 在第一个循环完全充电;	Battery
0 1.7 71	B13#~B16#	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

Descr	iption o	f the sai	mplina	procedure:

H7	北	程	户	44	114	HН	
HX	/ 上	个工	14	FM	757	ПH	

Description of report revision:

报告修订的说明:

Remarks:

备注:

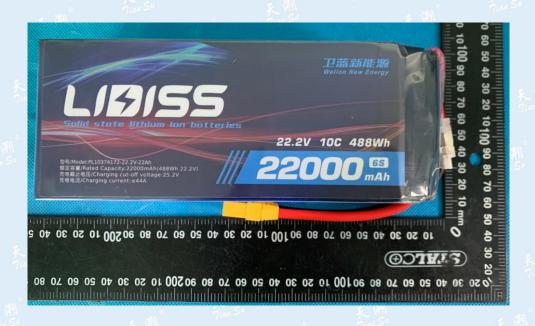
The Solid-State Lithium-ion Battery Pack submitted by Beijing WeLion New Energy Technology Co.,Ltd are small batteries.

由北京卫蓝新能源科技有限公司所送的固态锂离子电池组是小电池。

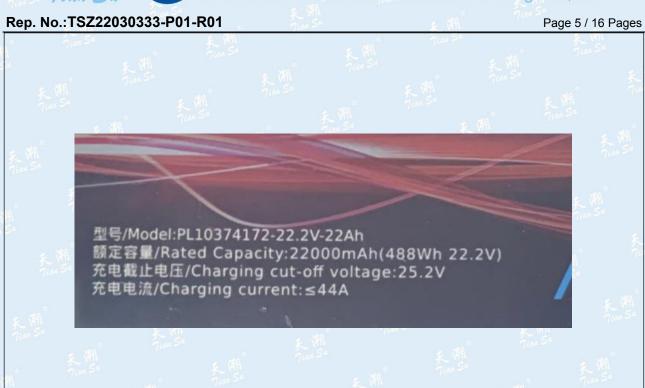


Page 4 / 16 Pages

Photos of Battery\电池图片









Page 6 / 16 Pages

Photos of Cell\电芯图片





Page 7 / 16 Pages

38.3.4	Procedure/测计	式步骤					ian Su—		
×40 °	Test 1: Altitud	Test 1: Altitude simulation/测试 1: 高度模拟							
38,3.4.1	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:								
	1.Cells and ba	ntteries Mass Io	oss limit: ≤0.1%	ie.					
	样品质量损	失≤0.1%。					P P		
50.5.4.1	applicable to	o test cells and	l batteries at ful	l discharged sta		t M	0		
	样品试验后和电芯。	廾路电 压应不1	战士试验 <u></u> 前开路	电压的 90%,此	要求不适用于完全	全放完电的电池	6:		
	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。								
a de la companya de l	Result 测试结果	iai 三 天資	g 7ian	S. A	天 渊 71an 54	- Qui	天湖 Tian 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 (kg)	Voltage 开路电压(V)	Mass 样品质量(kg)	Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	测试结果		
B01#	1.972	25.088	1.971	25.075	0.05	99.95	Р		
B02#	1.979	25.092	1.979	25.087	0.00	99.98	Р		
B03#	1.973	25.120	1.972	25.095	0.05	99.90	Р		
B04#	1.970	25.128	1.969	25.110	0.05	99.93	Р		
B05#	1.968	25.107	1.968	25.084	0.00	99.91	Р		
D00#	0	05.440	1.972	25.097	0.05	99.94	Р		
B06#	1.973	25.112	1.572		(B) Gr.Fd		3 2 3		
7,038	1.973 1.976	25.112	1.976	25.079	0.00	99.92	Р		

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

Page 8 / 16 Pages

Ρ

Ρ

P

Ρ

Ρ

99.55

99.50

99.56

99.47

99.53

38.3.4	Procedure/测	试步骤					ian Su—	
- FG	Test 2: Thern	nal test/测试 2	: 温度测试	Tian 2"	2 340	Tian Su	3	
	Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72±2°C, followed by storage for at least six hours at a test temperature equal to -40±2°C, 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°C).							
	贮存不少于6	个小时,两个温		长为 30min ,重复		度-40±2℃条件下 ī到 10 次,然后,	湖 ian Su	
38.3.4.2	Requirement/	标准要求:	7 iau 5 u		美洲	Time -	Р	
00.3.4.2 Sa	1.Cells and batteries Mass loss limit: ≤0.1% . 样品质量损失≤0.1%.							
	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。							
	样品(电池						0	
天 柳 7ian Si	Fin (电池 Result 测试结果	天湖 7ian Sii	7(20)	天湖 Tian Su	Tian Sa	天 Vi Pian	0 11 54	
Sample	Result 测试结果 Befor	e Test 式前個	After 测词		Mass loss	Residual OCV	Test	
Sample No. 样品编号	Result 测试结果 Befor		Minds D		Mass loss 质量损失(%)	Residual OCV 剩余电压(%)	Test result 测试结界	
No.	Result 测试结果 Befor 测证	式前 Voltage	测记 Mass	大后 Voltage			result	
No. 样品编号	Result 测试结果 Befor 测证 Mass 样品质量 (kg)	式前 Voltage 开路电压(V)	测io Mass 样品质量(kg)	大后 Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	result 测试结身	

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

25.110

25.084

25.097

25.079

25.086

1.968

1.966

1.971

1.975

1.970

24.997

24.959

24.987

24.946

24.968

0.05

0.10

0.05

0.05

0.05

其他补充:测试结果"P"代表判定该测试项目通过。

1.969

1.968

1.972

1.976

1.971

B04#

B05#

B06#

B07#

B08#

Page 9 / 16 Pages

38.3.4	Procedure/测	试步骤					ian Su—	
- 50	Test 3: Vibra	tion/测试 3: 振	支动 关键	Mian Su		Tian Su	3	
	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 Su	Requirement/标准要求: 1.Cells and batteries Mass loss limit: ≤0.1%. 样品质量损失≤0.1%. 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.							
	Result 测试结果	71an Sa	* #A	天湖 7iau Su	:着火现象的发生	河ian: 河ian: n Sa	.a .a	
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 (kg)	Voltage 开路电压(V)	Mass 样品质量(kg)	Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	测试结果	
B01#	1.970	24.952	1.970	24.942	0.00	99.96	Р	
B02#	1.978	24.967	1.977	24.937	0.05	99.88	Р	
B03#	1.970	24.965	1.970	24.960	0.00	99.98	Р	
Z VII		04.007	1000			200	77235	
B04#	1.968	24.997	1.968	24.972	0.00	99.90	Р	

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

24.987

24.946

24.968

1.970

1.974

1.969

24.957

24.926

24.953

0.05

0.05

0.05

99.88

99.92

99.94

Ρ

Р

Ρ

其他补充:测试结果"P"代表判定该测试项目通过。

1.971

1.975

1.970

B06#

B07#

B08#

Page 10 / 16 Pages

38.3.4	Procedure/测	试步骤	i. W.	長潮	Tian -	348	ian Su —	
· AA	Test 4: Shoc	k/测试 4: 冲击	天湖	7(ar 2"	2 34	Jean Su	*	
7 ian Su 7 ian Su 8 7 i	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)= \(\square{\limits} \) 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)= \(\square{\limits} \) 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\(\square{\limits} \) 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\(\square{\limits} \) 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: ≤0.1%. 样品质量损失≤0.1%. 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。						天瀬 7ian Su 天瀬 7ian Su	
	Result/测试组		未 侧	Ja wester to to a	240 7ia	MA S#	美型	
Sample No.	Before Test 测试前		2011	After Test 测试后		Residual OCV	Test result	
样品编号	Mass 样品质量 (kg)	Voltage 开路电压(V)	Mass 样品质量(kg)	Voltage 开路电压(V)	质量损失(%)	剩余电压(%)	测试结果	
B01#	1.970	24.942	1.970		/60	E 11		
	No. of the contract of the con	21.012	1.370	24.915	0.00	99.89	Р	
B02#	1.977	24.937	1.976	24.915	0.00	99.89	P P	
B02#	1.977 1.970	2 W	Tian 3"	- 100 (P)	Trans	*	1	
	£ W	24.937	1.976	24.932	0.05	99.98	Р	
B03#	1.970	24.937 24.960	1.976	24.932	0.05	99.98	P	
B03#	1.970 1.968	24.937 24.960 24.972	1.976 1.970 1.968	24.932 24.940 24.962	0.05 0.00 0.00	99.98 99.92 99.96	P P P	
B03# B04# B05#	1.970 1.968 1.966	24.937 24.960 24.972 24.944	1.976 1.970 1.968 1.966	24.932 24.940 24.962 24.939	0.05 0.00 0.00 0.00	99.98 99.92 99.96 99.98	P P P	

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

Page 11 / 16 Pages

38.3.4	Procedure/测试步骤	54	天湖 "	×A	ian Su—
- 244	Test 5: External short ci	rcuit/测试 5:外部短路	ητω: ⊇" → ≥#A	7 can Su	季
天 瀬 7ian Su 天 7ia	The cell or battery to be to temperature reaches 57±4 condition with a total external condition is continued for has returned to 57±4℃, the be concluded. 保持试验环境温度稳定在度下,将其正负极用小于中再持续1小时以上,对电流	4℃ and then the cell or rnal resistance of less that least one hour after the cell or battery must be 57±4℃,以使电芯或电测0.1 欧姆的线路短接,待	battery shall be sunan 0.1 ohm at 57± ne cell or battery exe observed for a funder by the cell of the	bjected to a short circuit 4℃, This short circuit ternal case temperature ther six hour for the test 57±4℃, 然后, 在此温温度恢复到 57±4℃之后	天湖 7ian Su ian Su P
天開 Tian Su	Requirement/标准要求: 1.Cells and batteries mee 170℃; 电芯或电池的外壳温度/ 2. No disassembly, no rup 试验后 6 小时内无解体.	应不超过 170℃; uture and no fire during f	天潮 7:an 5a		天湖 Tian Su 天湖
	Result 测试结果		7 can Su	天潮 Tian Su	Team -
Sample No. 样品编号	天湖 7:au 5:1	Max Externa 样品表面最高	MA -	天湖 天湖	Test result 测试结果
B01#	7.00	7 cm St 57.4	天潮 Tian Su	z Mi	P
B02#	州。 Year Su	57.4		· 河an Su	Р
B03#	ian 5"	VIII ion 5 th 58.5	大概	7.cm - 0	Tim P
	Tian Su	57.1	± ₩.	gian Su	Р
B04#			5,45	4	_
B04# B05#	夫 (附) 7101 54	57.2			P
- * * * * * * * * * * * * * * * * * * *	天開 Tian Su Tian Su Tian Su	57.2 58.7	AN CONTRACTOR	7ian 7ian Su	P P
B05#	天湖 Tian Su Tian Su 天湖	710	期 天湖 7ian Su	7ian Su 7ian Su 7ian Su 天網	

Page 12 / 16 Pages

38.3.4	Procedure/测试步骤	ian S#-
天湖 Tian Sa	Test 6: Crush\Impact/ 测试 6: 挤压(适用) 撞击(不适用)	3
	Crush 挤压	美術 Tion 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.	·渊
	(a) The applied force reaches 13kN±0.78kN;	
	(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.	
	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 浙 Tian S
	(a)作用力达到 13kN±0.78kN;	***
	(b)电池芯电压降至少达到 100mV;	Pian Su
	(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。	
	Impact	i u
88.3.4.6	(applicable to cylindrical cells not less than 18mm in diameter)	P
7 iau 3** 5* 7 iau 5	The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm \pm 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 \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.	天湖 Tian Su A 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.	K i 7ian
	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。	β. 5α
	Requirement/标准要求:	70
	1.Cells and component cells meet this requirement if their external temperature does not	
	exceed 170℃;	N/O
	电芯的外壳温度应不超过 170℃;	K VIII
	2. No disassembly, no fire during the test and within six hours after this test.	



Page 13 / 16 Pages

7 ian u	Result 测试结果	天潮 Tian Su Tian Su	K VIII Tian 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
C01#	3.826	24.5 MA	P
C02#	3.829	24.9 × 11	Р
C03#	3.828	24.6	Р
C04#	3.825	24.7 × M	P
C05#	3.831 Tour Su	24.5	Р
C06#	3.826	24.4	Р
C07#	3.823 F. W. Jun 5u	24.5	P
C08#	3.832	24.8 7 m	Р
C09#	3.835	25.0	Į. P
C10#	3.824	7im 5" 24.9 5" 17m 5"	Р

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

Page 14 / 16 Pages

	Procedure/测试步骤	e ian >"			
	Test 7: Overcharge/测试 7: 过度充电				
Tian Su Tian Su Tian Su Tian Su Tian Su Tian Su	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 7ian 5"	7.34 54			
	测试结果。5 mm 5 m				
Sample No. 样品编号	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Test result 测试结果			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	测试结果 OCV prior to test	L MAIN			
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 B09#	测试结果 OCV prior to test 试验前电压(V) 25.087	测试结果 P			
样品编号 B09# B10#	测试结果 OCV prior to test 试验前电压 (V) 25.087 25.107	测试结果 P P			
样品编号 B09# B10# B11#	测试结果 OCV prior to test 试验前电压 (V) 25.087 25.107 25.096	测试结果 P P			
B09# B10# B11# B12#	测试结果 OCV prior to test 试验前电压 (V) 25.087 25.107 25.096	测试结果 P P P			
样品编号 B09# B10# B11# B12# B13#	测试结果 OCV prior to test 试验前电压 (V) 25.087 25.107 25.096 25.113	测试结果 P P P			

Page 15 / 16 Pages

38.3.4	Procedure/测试步骤		大潮		igian Su—
	Test 8: Forced discharge/测	试 8: 强制放电	· lime	t 渊	
7ian Su 7ian Su 38.3.4.8	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	gian >	· 夫湖 Tian Su	天湖 7:00 Sil 天瀬	天瀬 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#	3.329	P	C21#	3.327	Р
C12#	3.323	P P	C22#	3.338	P
C13#	3.349	o P Tian	C23#	3.292	Р
C14#	3.321	Р	C24#	3.339	P P
C15#	3.312	P. 5	C25#	3.321	Р
C16#	3.294	Р	C26#	3.340	^{™S™} P
C17#	7 i 3 3 3 3 3 4	Film Su P	C27#	3.291	P
C18#	3.350	P	C28#	3.330	Р
	2 202	Р	C29#	3.312	P
C19#	3.293		7 Y Y Y Y Y Y		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Page 16 / 16 Pages

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.

除非全部复制,否则无深圳天溯计量检测股份有限公司书面批准本报告不得部分复制。

- 3. This report is invalid without the signature of the approver, reviewer, and tester. 本报告无批准人、审核人及检测人签名无效。
- 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。

