



检验报告 TEST REPORT

NAME OF SAMPLE: Rechargeable Li-ion Polymer Battery

产品名称:二次锂电池组

CLIENT: SUNWODA Electronic Co., Ltd.

委托单位:_ 欣旺达电子股份有限公司

CLASSIFICATION OF TEST: Commission test

检验类别: 委托测试





Shenzhen Precise Testing Technology Co., Ltd

Page 2 of 16 Report No.: S-18120274 Applicant information 申请资料 Rechargeable Li-ion Polymer Battery Name of samples: 样品名称: 二次锂电池组 Type/ Model: G020J-B 3.85V 3700mAh 14.24Wh 型号规格: Lithium content:: 锂含量: Trade mark: 商标: SUNWODA Electronic Co., Ltd. Commission by: 委托单位: 欣旺达电子股份有限公司 Commissioner address: Floor 1,A,B,D District of Floor 2 and Floor 3 to 9 of Comprehensive 委托单位地址: Building, No.2 Yihe Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China 中国广东省深圳市宝安区石岩街道石龙社区颐和路2号综合楼1楼、2楼A-B区、 2楼D区3-9楼 SUNWODA Electronic Co., Ltd. Third Branch Factory: 生产厂: 欣旺达电子股份有限公司第三分公司 Blk. A B C D E. 2 Yihe Rd., Shilong Community, Shiyan Street, Baoan Factory address: 生产厂地址: District, Shenzhen Guangdong 518108, China. 深圳市宝安区石岩街道石龙社区颐和路2号厂房A、B、C、D、E栋 Sliverv Appearance: 样品外观颜色: 银色 Sample status: Good 样品状态: 完好 Package of goods: Carton 样品外包装: 纸箱 Quantity of sample: 43pcs 样品数量: Sample identification: c1#~c43# 样品标识序号:

Conclusion/结论:

测试完成日期:

Completing date:

Receiving date:

接样日期:

The submitted samples comply with the requirements of UNITED NATIONS Section 38.3 Of The Sixth Revised Edition Of The Recommendations On The Transport Of Dangerous Goods, Manual Of Test And Criteria(ST/SG/AC.10/11/Rev.6 Section 38.3)

样品符合联合国《关于危险货物运输的建议书 试验和标准手册》第六修订版第38.3节的要

Seal/检验专用:

Date of issue: 2019.01.10

Tested · Approved: Reviewed:

2018-12-29

2019-01-10

批准:

汤鱼发

审核:

测试: 朱銿昂



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Tost Conclusion测试学法论

Test Conclusion测试结论								
No.	Name of test		Test result	Conclusion	Remarks			
序号	测试项目名称		测试结果	本项结论	备注			
1	Altitude simulation 高度模拟		See Appendix 1	Р				
2	Thermal test 温度试验		See Appendix 2	Р				
3	Vibration 振动	The submitted samples comply with the	See Appendix 3	Р				
4	Shock 冲击	requirements of UNITED NATIONS Section 38.3 Of The Sixth Revised Edition Of The Recommendations On	See Appendix 4	Р				
5	External Short-circuit 外部短路	The Transport Of Dangerous Goods, Manual Of Test And Criteria(ST/SG/AC.10/11/ Rev.6 Section 38.3) 样品符合联合国《关于危险	See Appendix 5	Р				
6	Crush 挤压	货物运输的建议书 试验和标准手册》第六修订版第 38.3节的要求。	See Appendix 6	Р				
	Impact 撞击		See Appendix 6	N/A				
7	Overcharge 过度充电		See Appendix 7	Р				
8	Forced discharge 强制放电		See Appendix 8	Р				



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Photos of samples and markings

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样品及标识照片

Battery (G020J-B 3.85V 3700mAh 14.24Wh)





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Photos of samples and markings

样品及标识照片

Battery (G020J-B 3.85V 3700mAh 14.24Wh)





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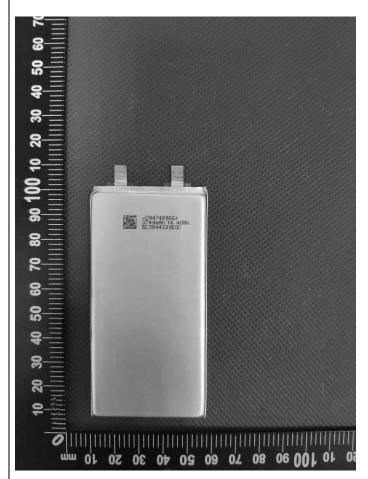
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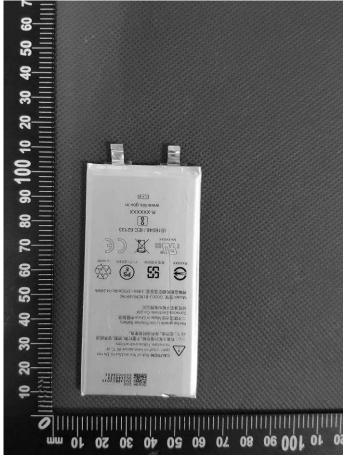
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Photos of samples and markings

样品及标识照片

CELL (CA474896G 3740mAh 14.4Wh)





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	10. . 3-1012021		• •	endix 1		rage roi			
	,		<u> </u>	表 1					
Test Items 测试项目	Altitude simulation 高度模拟								
1.1	Test procedure 测试步骤								
	Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hours a ambient temperature (20±5℃). 试验电池芯和电池在环境温度(20±5℃)下,储存在小于等于11.6kPa的压力下至少六小时。								
1,2	Sample sta 样品状态		in fully charged	I states:					
	c1# ~ c10#	,在第一个循环							
1.3	Result 测试结果								
Sample No. 样品编号	Before Test测试前 After Te			Mass loss 质量损失 (M<1g: 0.5%		Residual OCV 剩余电压	Test result 测试结果		
	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量(g)	Voltage 开路电压 (V)	1g≤M≤75g: 0.2% M>75g: 0.1%)	(≥90%)			
c1#	52.011	4.379	52.010	4.374	0.002	99.89	0		
c2#	52.041	4.374	52.040	4.370	0.002	99.91	0		
c3#	52.220	4.373	52.219	4.369	0.002	99.91	0		
c4#	52.285	4.381	52.285	4.376	0.000	99.89	0		
c5#	52.268	4.378	52.268	4.373	0.000	99.89	0		
c6#	52.081	4.379	52.080	4.372	0.002	99.84	0		
c7#	51.930	4.380	51.929	4.373	0.002	99.84	0		
c8#	51.984	4.374	51.984	4.367	0.000	99.84	O		
c9#	52.236	4.378	52.236	4.368	0.000	99.77	0		
c10#		T .		4.376	0.002	99.89	0		

Note: **L**-Leakage, **V**-Venting, **D** -Disassembly, **R** -Rupture, **F**-Fire, **O**-No leakage, no venting, no disassembly, no rupture, no fire.

注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火; O- 无泄漏、无排气、无解体、无破裂、无起火。



c7#

c8#

c9#

c10#

51.929

51.984

52.236

52.381

4.373

4.367

4.368

4.376

深圳普瑞赛思检测技术有限公司

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			•	pendix 2				
Test Items 测试项目	Thermal tes 温度测试	t	<u> </u>	附表 2				
1.1	Test procedure 测试步骤							
	72±2℃, foll maximum ti repeated un for 24 hours 将电芯和电流 于6个小时,	owed by stor me interval b itil 10 total cy at ambient to 他在温度为72	rage for at le etween test t cles are com emperature (2±2℃的条件 分间隔最长为	east six hour temperature o nplete, after v 20±5℃). 下贮存不少于	least six hours at a six at a test tempera extremes in 30 minu which all test cells are 6个小时,然后,在没作上述步骤直到10次	ture equal to -4 ites, This proced nd batteries are 温度-40±2℃条件	I0±2℃, The dure is to be to be stored ⊧下贮存不少	
1.2	Sample status 样品状态 c1#~c10#, at first cycle in fully charged states;							
1.3	Result 测试结果	在第一个循环	外元至允电;					
Sample No. 样品编号			st测试后 Voltage	Mass loss 质量损失 (M<1g: 0.5%	Residual OCV 剩余电压	Test result 测试结果		
	样品质量 (g) 	开路电压 (V)	样品质量 (g)	开路电压 (V)	1g≤M≤75g: 0.2% M>75g: 0.1%)	(≥90%)		
c1#	52.010	4.374	52.007	4.277	0.006	97.78	0	
c2#	52.040	4.370	52.038	4.279	0.004	97.92	0	
c3#	52.219	4.369	52.216	4.276	0.006	97.87	0	
c4#	52.285	4.376	52.282	4.281	0.006	97.83	0	
c5#	52.268	4.373	52.265	4.275	0.006	97.76	0	
c6#	52.080	4.372	52.075	4.277	0.010	97.83	0	

Note: L-Leakage, V-Venting, D -Disassembly, R -Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture, no fire.

4.272

4.255

4.257

4.281

0.012

800.0

0.010

0.006

97.69

97.44

97.46

97.83

0

0

0

0

注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火; O- 无泄漏、无排气、无解体、无破裂、无起火。

51.923

51.980

52.231

52.378



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				pendix 3						
	[\ r_1 \ \ c_2		β	付表 3						
Test Items 测试项目	Vibration 振动									
1.1	Test proced 测试步骤	Test procedure 测试步骤								
	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。									
1.2	Sample star 样品状态 c1#~c10#,	tus at first cycle i	n fully charge	ed states;						
		在第一个循环		,						
1.3	Result 测试结果									
Sample No.					Mass loss	Residual	Test			
样品编号	Before Test测试前		After Test测试后		质量损失 (M<1g: 0.5%	OCV 剩余电压	result 测试结果			
	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量 (g)	Voltage 开路电压 (V)	1g≤M≤75g: 0.2% M>75g: 0.1%)	(≥90%)				
c1#	52.007	4.277	52.007	4.275	0.000	99.95	0			
c2#	52.038	4.279	52.038	3.968	0.000	92.73	O			
c3#	52.216	4.276	52.216	4.275	0.000	99.98	O			
c4#	52.282	4.281	52.282	4.280	0.000	99.98	O			
c5#	52.265	4.275	52.265	4.274	0.000	99.98	O			
c6#	52.075	4.277	52.075	4.276	0.000	99.98	0			
c7#	51.923	4.272	51.923	4.269	0.000	99.93	O			
c8#	51.980	4.255	51.980	4.254	0.000	99.98	0			
c9#	52.231	4.257	52.231	4.256	0.000	99.98	0			
c10#	52.378	4.281	52.378	4.280	0.000	99.98	O			

Note: L-Leakage, V-Venting, D -Disassembly, R -Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture, no fire.

注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火; O- 无泄漏、无排气、无解体、无破裂、无起火。



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Appendix 4

				表 4						
Test Items 测试项目	Shock 冲击									
1.1	Test procedure 测试步骤									
	Test cells and batteries shall be secured to the testing machine, and each cell shall be subjected to a half-sine shock of peak acceleration of 150gn and pulse duration of 6 milliseconds. Large cells may be subjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds. Small batteries shall be subjected to a half-sine shock of peak acceleration of 150gn (or Acceleration(gn)= √ (or Acceleration of 150gn), which is smaller) and pulse duration of 6 milliseconds, large batteries shall be subjected to a half-sine of peak acceleration of 50gn (or Acceleration(gn)= √ (or Acceleration of 11 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction 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。对每个电芯以峰值为150gn的半正弦的加速度撞击,脉冲持续6毫秒,大型电芯须经受最大加速度50gn和脉冲持续时间11毫秒的半正弦波冲击。对每个电池以峰值为150gn(或与√ (or Acceleration of 50gn (or Acceleration of 50gn (or Acceleration of 150gn (or Acceleration of 150gn (or Acceleration of 50gn (or Acceleration of 50gn (or Acceleration of 150gn (or Acceleration of 50gn (or A									
1.2	冲击,总共约 Sample stat 样品状态	受18次冲击。 us								
	c1# ~ c10#, a	at first cycle in 在第一个循环5		states;						
1.3	Result 测试结果									
Sample No. 样品编号	No. Before Test测试前 After Test测试后 Mass loss Residual						Test result 测试结果			
c1#	52.007	4.275	52.007	4.273	0.000	99.95	0			
c2#	52.038	3.968	52.038	3.967	0.000	99.97	0			
c3#	52.216	4.275	52.216	4.273	0.000	99.95	0			
c4#	52.282	4.280	52.282	4.279	0.000	99.98	0			
c5#	52.265	4.274 52.265 4.273 0.000 99.98 O								

Note: **L**-Leakage, **V**-Venting, **D**-Disassembly, **R**-Rupture, **F**-Fire, **O**-No leakage, no venting, no disassembly, no rupture, no fire.

4.275

4.268

4.254

4.255

4.279

0.000

0.000

0.000

0.000

0.000

99.98

99.98

100.00

99.98

99.98

0

0

0

0

注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火; O- 无泄漏、无排气、无解体、无破裂、无起火。

52.075

51.923

51.980

52.231

52.378

4.276

4.269

4.254

4.256

4.280

52.075

51.923

51.980

52.231

52.378

c6#

c7#

c8#

c9#

c10#



Test Items

测试项目

1.1

Over temperature

External short circuit

Test procedure

外部短路

测试步骤

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Appendix 5

附表 5

	temperature condition wit condition is o has returned to be conclu 保持试验环境 下,将其正句	attery to be tested shall be temperature stabilized reaches 57±4℃ and then the cell or battery shall h a total external resistance of less than 0.1 ohm continued for at least one hour after the cell or batto 57±4℃, the cell or battery must be observed to 57±4℃, the cell or battery must be observed to 57±4℃, 以使电芯或电池样品外表温度温度稳定在57±4℃,以使电芯或电池样品外表温度极用小于0.1欧姆的线路短接,待电芯或电池的外时电芯或电池必须进一步观察6个小时才能下结论。	be subjected to a shot at 57±4℃, This short ttery external case tenfor a further six hour for æbben 157±4℃, 然后,表温度恢复到57±4℃,	ort circuit circuit nperature or the test			
1.2	样品状态	Sample status 样品状态					
		at first cycle in fully charged states; 在第一个循环完全充电;					
1.3	Result 测试结果						
	nple No. 品编号	Max. External Temperature 样品表面最高温度 (℃)	Test result 测试结果	Remark 备注			
	c1#	57.6	0				
	c2#	57.7	0				
	c3#	57.7	0				
	c4#	57.8	0				
	c5#	57.9					
	c6#	57.8	0				
	c7#	57.8	0				
	c8#	57.8	0				
	c9#	57.6	0				
	c10#	57.7	0				

注: D- 解体; R- 破裂; F- 起火; OT- 超过170℃; O- 无解体、无破裂、无起火、不超过170℃



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Report No.: S-18120274 Page 12 of 16 Appendix 6 附表 6 Test Items Crush 挤压/Impact 撞击 测试项目 **Test procedure** 1.1 测试步骤 Crush 挤压 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. (a) The applied force reaches 13kN±0.78kN; (b) The voltage of the cell drops by at least 100 mV; or (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: (a)作用力达到 13kN±0.78kN; (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。 Impact 撞击 (applicable to cylindrical cells not less than 18mm in diameter) 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 \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. 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.



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	Appendix 6 附表 6						
Test Items 测试项目	Crush 挤压/Impact 撞击						
	Cells and component cells meet this	•	•				
	not exceed 170°C and there is no dis six hours after this test.	sassembly and no fire duri	ng the test and within				
	(适用于直径不小于18毫米的圆柱形电	1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						
	中心位置。然后,将一质量为9.1 kg:	-					
	品在进行试验时,其外表温度应不超 解体、无起火现象发生。	过170℃。且\验结果后6′	个小时之内,梓品应尤				
1.2	Sample status						
	样品状态						
	c11#~c15#, at first cycle at 50% of t c11#~c15#, 在第一个循环50%的额						
1.3	Result 测试结果						
Sample No.	Max. External Temperature	Test result	Remark				
样品编号	样品表面最高温度 (℃)	测试结果	备注				
c11#	22.3	0					
c12#	22.1	0					
c13#	22.4	0					
c14#	22.3	0					
c15#	22.2	0					

Note: **D** -Disassembly, **R** -Rupture, **F**-Fire, **OT** -Over Temperature, **O**- no disassembly, no fire, no Over temperature

注: D- 解体; R- 破裂; F- 起火; OT- 超过170℃; O-无解体、无起火、不超过170℃



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	Appendix	1					
	附表 7						
Test Items 测试项目	Overcharge 过度充电						
1.1	Test procedure 测试步骤						
	When the manufacturer's recommended voltage of the test shall be the lesser of the 22V, whichever is less. When the manufacturer's recommended with the control of the test shall current is 2 times of the maximum charge 如果厂家推荐的充电电压不超过18V,本中电压或者是22V,取其中较小者。如果厂的厂家标定最大充电电压。充电电流为厂	two times the maximum cha facturer's recommended char be 1.2 times maximum charg ing current recommended b 测试的最小充电电压应该是i 家推荐的充电电压超过18V,	arge voltage of the or rge voltage is more than e voltage. The chargin by the manufacturer。 两倍的厂家标定最大充 充电电压应该为 1.2				
1.2	Sample status 样品状态						
	c16# ~ c19#, at first cycle in fully charge c16# ~ c19#, 在第一个循环完全充电;	d states;					
	c20# ~c23#, after 50 cycles ending in fulc20# ~c23#, 在第五十个循环完全充电;	lly charged states;					
1.3	c20# ~c23#, after 50 cycles ending in fulc20# ~c23#, 在第五十个循环完全充电;	lly charged states;					
	c20# ~c23#, after 50 cycles ending in ful c20# ~c23#, 在第五十个循环完全充电; Result 测试结果		Remark				
1.3 Sample No. 样品编号	c20# ~c23#, after 50 cycles ending in fulc20# ~c23#, 在第五十个循环完全充电;	lly charged states; Test result 测试结果	Remark 备注				
Sample No.	c20# ~c23#, after 50 cycles ending in ful c20# ~c23#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V)	Test result					
Sample No. 样品编号	c20# ~c23#, after 50 cycles ending in fulc20# ~c23#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V)	Test result 测试结果					
Sample No. 样品编号 c16#	c20# ~c23#, after 50 cycles ending in ful c20# ~c23#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 4.381	Test result 测试结果 O					
Sample No. 样品编号 c16# c17#	c20# ~c23#, after 50 cycles ending in ful c20# ~c23#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 4.381 4.383	Test result 测试结果 O					
Sample No. 样品编号 c16# c17# c18#	c20# ~c23#, after 50 cycles ending in fulc20# ~c23#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 4.381 4.383 4.379	Test result 测试结果 O O					
Sample No. 样品编号 c16# c17# c18# c19#	c20# ~c23#, after 50 cycles ending in ful c20# ~c23#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 4.381 4.383 4.379 4.374	Test result 测试结果 O O O					
Sample No. 样品编号 c16# c17# c18# c19#	c20# ~c23#, after 50 cycles ending in ful c20# ~c23#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 4.381 4.383 4.379 4.374 4.378	Test result 测试结果 O O O					

Note: **D** -Disassembly, **F**-Fire, **O**- no disassembly, no fire.

注: D- 解体; F- 起火; O-无解体、无起火。



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,	Appendix 8							
附表 8								
Test Items 测试项目	Forced discharge 强制放电							
1.1	Test procedure 测试步骤							
	with a 12V D. C current specified connecting a resi Each cell shall the capacity divided the 在20±5℃的环境流	, power suppl the manufactu stive load of th be forced disc by the initial tes 品度下,将单个	y at an initial currer irer The specified di ne appropriate size a harged for a time i st current(in ampere) 中心连接在12V的直	mperature by connent equal to the maxischarge current is to and rating in series vinterval(in hours) equal in the content of	imum discharge be obtained by vith the test cell, jual to its rated t电,此直流电源			
1.2	Sample status 样品状态							
	c24# ~ c33#, at first cycle in fully discharged states; c24# ~ c33#, 在第一个循环完全放电; c34# ~ c43#, after 50 cycles ending in fully discharged states; c34# ~ c43#, 在第五十个循环完全放电;							
1.3	Result 测试结果							
Sample No. 样品编号	Voltage Before test 测试前开路电压 (V)	Test result 测试结果	Sample No. 样品编号	Voltage Before test 测试前开路电压 (V)	Test result 测试结果			
c24#	3.338	0	c34#	3.384	0			
c25#	3.325	0	c35#	3.299	0			
c26#	3.297	0	c36#	3.428	0			
c27#	3.298	0	c37#	3.380	0			
c28#	3.296	0	c38#	3.306	0			
c29#	3.310	0	c39#	3.339	0			
c30#	3.311	0	c40#	3.320	0			
c31#	3.387	0	c41#	3.307	0			
c32#	3.300	0	c42#	3.405	0			
c33#	3.295	0	c43#	3.300	0			

Note: **D** -Disassembly, **F**-Fire, **O**- no disassembly, no fire.

注: D- 解体; F- 起火; O-无解体、无起火。



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注意事项 Attention

1. 本报告无检测单位"检验专用章"无效。

The test report is invalid without the official stamp of the lab.

2. 未经本实验室书面同意,不得部分地复制本报告。

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3. 本报告无批准人、审核人签名无效。

The test report is invalid without the signature of ratifier, reviewer.

4. 本报告涂改无效。

The test report is invalid if altered.

- 5. 如果报告中部分项目相对于测试依据有偏离的,将在当前测试项目中予以说明。
 If any test method is deviation from the designated test method, must be commented in the test data sheet.
- 6. 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。 Objections to the test report must be submitted to lab within 15 days.
- 7. 本报告仅对送检样品负责。

The test report is valid for the tested sample only.

8. 本检测结果中"N/A"表示"不适用","P"表示"通过","F"表示"不通过"。 As for the test result "N/A" means "Not Applicable", "P" means "Pass" and "F" means "Fail".

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