

# 检验报告 TEST REPORT

NAME OF SAMPLE: Rechargeable Li-ion Polymer Battery

产品名称: 锂离子电池组/ 锂离子电池

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.

Report No.: S-19040171A0 Page 2 of 15 Applicant information 申请资料 Name of samples: Rechargeable Li-ion Polymer Battery 样品名称: 锂离子电池组/ 锂离子电池 Type/ Model: L19D3PF0 11.25V 3175mAh 35Wh(Rated) 3280mAh 36Wh(Typ.) 型号规格: Lithium content:: 锂含量: Trade mark: 商标: Commission by: SUNWODA Electronic Co.,Ltd. 委托单位: 欣旺达电子股份有限公司 Floor1, A, B, D District of Floor 2 and Floor 3 to 9 of Comprehensive Building, No.2 Yihe Road, Shilong Community, Shiyan Street, Bao'an District, Commissioner address: 委托单位地址: 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. Sixth Branch Factory: 生产厂: 欣旺达电子股份有限公司第六分公司 Northeast of Intersection of Keyu Road and Tongguan Road, Gongming Factory address: Street, Guangming New District, Shenzhen City, Guangdong Province, P.R. China 生产厂地址: 中国广东省深圳市光明新区公明街道科裕路与同观大道交汇处东北 Appearance: Black 样品外观颜色: 黑色 Sample status: Good 完好 样品状态: Package of goods: Carton 样品外包装: 纸箱 Quantity of sample: 41pcs 样品数量: Sample identification: b1#-b16# 样品标识序号: c1#-c25# Receiving date: 2019-04-25 接样日期: Completing date: 2019-05-10 测试完成日期:

Conclusion/结论:

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 Canada Goods Manual Of Test And Criteria(ST/SG/AC.10/11/Rev.6 Section 38.3) 独版第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》第六个

Seal/检验专

Date of issue 2019.05

Approved: Reviewed: Tested:

审核: 陶利信

测试: 李兴畅



Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 3 of 15

Test Conclusion测试结论							
No. 序号	Name of test 测试项目名称		Test result 测试结果	Conclusion 本项结论	Remarks 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			
Ů	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			



Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 4 of 15

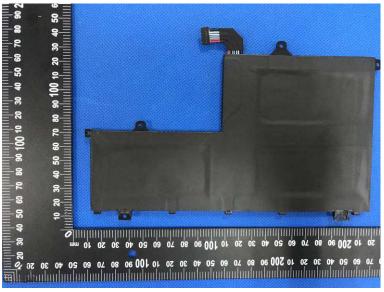
#### Photos of samples and markings

样品及标识片

Battery (L19D3PF0 3175mAh 35Wh(Rated) 3280mAh 36Wh(Typ.)) 11.25V









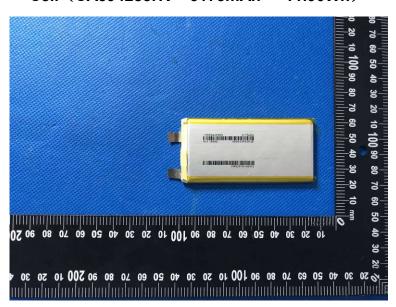
Shenzhen Precise Testing Technology Co., Ltd

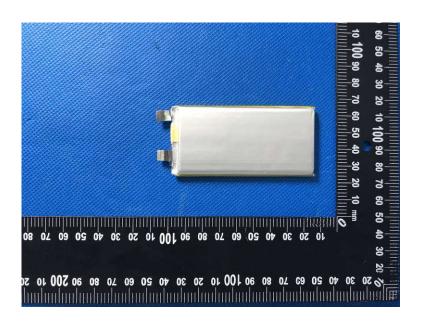
Report No.: S-19040171A0

#### Photos of samples and markings

样品及标识照片

#### Cell (CA594285HV 3175mAh 11.90Wh)





Page 5 of 15



Test Items

测试项目

Altitude simulation

## 深圳普瑞赛思检测技术有限公司

Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 6 of 15

Appendix 1 附表 1

测试项目	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 at									
	ambient ten	nperature (20	±5℃).	·	÷ of 11.6kPa or less f ·等于11.6kPa的压力↑					
1.2	Sample sta 样品状态		n fully charged	etatee:						
		在第一个循环	•	siaies,						
		b5#~b8#, after 50 cycles ending in fully charged states; b5#~b8#, 在第五十个循环完全充电;								
1.3	Result 测试结果									
Sample No. 样品编号	Before Test测试前		After Test测试后		Mass loss 质量损失 (M<1g: 0.5%	Residual OCV 剩余电压 (≥90%)	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%)	(29070)				
b1#	156.80	12.553	156.80	12.551	0.000	99.98	0			
b2#	156.38	12.561	156.38	12.553	0.000	99.94	0			
b3#	156.08	12.561	156.08	12.556	0.000	99.96	0			
b4#	155.97	12.537	155.96	12.533	0.006	99.97	0			
b5#	156.35	12.540	156.34	12.535	0.006	99.96	0			
b6#	156.50	12.553	156.50	12.528	0.000	99.80	0			
b7#	156.04	12.523	156.04	12.520	0.000	99.98	0			
	156.36	12.510	156.36	12.507	0.000	99.98	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。



b7#

b8#

156.04

156.36

12.520

12.507

#### 深圳普瑞赛思检测技术有限公司

Shenzhen Precise Testing Technology Co., Ltd

Papert No. S 1904017140

Report I	No.: S-1904017	1A0		<b>J</b>		Page 7 c	of 15				
			Ар	pendix 2							
				附表 2							
Test Items 测试项目	Thermal tes 温度测试	t									
1.1	Test proced 测试步骤	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℃的条件 为间隔最长为	east six hour temperature o pplete, after v (20±5℃). 下贮存不少于	least six hours at a rest temperates at a test temperates in 30 minus 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 b1#~b4#, at first cycle in fully charged states; b1#~b4#, 在第一个循环完全充电;										
	b5#~b8#, after 50 cycles ending in fully charged states; b5#~b8#, 在第五十个循环完全充电;										
1.3	Result 测试结果										
Sample No. 样品编号	Before Te	est测试前	I Atter Lectyllist 片 I		Mass loss 质量损失	Residual OCV	Test result				
1十四州 夕	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量 (g)	Voltage 开路电压 (V)	(M<1g: 0.5% 1g≤M≤75g: 0.2% M>75g: 0.1%)	剩余电压 (≥90%)	测试结果				
b1#	156.80	12.551	156.79	12.310	0.006	98.08	0				
b2#	156.38	12.553	156.38	12.310	0.000	98.06	0				
b3#	156.08	12.556	156.08	12.311	0.000	98.05	0				
b4#	155.96	12.533	155.96	12.309	0.000	98.21	0				
b5#	156.34	12.535	156.34	12.325	0.000	98.32	0				
b6#	156.50	12.528	156.50	12.315	0.000	98.30	0				

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

12.290

12.283

0.000

0.000

98.16

98.21

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。

156.04

156.36



b4#

b5#

b6#

b7#

b8#

155.96

156.34

156.50

156.04

156.36

12.309

12.325

12.315

12.290

12.283

#### 深圳普瑞赛思检测技术有限公司

Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 8 of 15

Report	No.: S-1904017	1A0				Page 8 o	f 15		
			Ар	pendix 3					
			ß	付表 3					
Test Items 测试项目	Vibration 振动	振动							
1.1	Test procedure 测试步骤								
	cells in such wave form w minutes, Thi perpendicula 将电芯和电 200Hz,然后	a manner as vith a logarith s cycle shall l ar mounting p 地牢固地安装	to faithfully to mic sweep be be repeated fo osition of the 在振动台的f Hz为一个循环	ransmit the vil stween 7 Hz a l2 times for a cell. 台面上,然后 不,一个循环持	n of the vibration mac pration, The vibration nd 200 Hz and back total of 3 hours for ea 开始振动。振动以正 持续15分钟的对数扫频	shall be a sin to 7 Hz travers ach of three m 弦波形式,以	usoidal sed in 15 utually 7Hz增加至		
1.2		t <b>us</b> at first cycle in 在第一个循环		l states;					
		ifter 50 cycles 在第五十个循		ly charged sta	ates;				
1.3	Result 测试结果								
Sample No. 样品编号	Before Te	est测试前	After Test测试后		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%)			
b1#	156.79	12.310	156.77	12.309	0.013	99.99	0		
b2#	156.38	12.310	156.38	12.309	0.000	99.99	0		
b3#	156.08	12.311	156.08	12.307	0.000	99.97	0		
	455.00	40.000	455.05	40.00=	0.000	22.25			

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

12.305

12.322

12.313

12.285

12.280

0.006

0.006

0.006

0.000

0.000

99.97

99.98

99.98

99.96

99.98

0

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。

155.95

156.33

156.49

156.04

156.36



Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 9 of 15

	No.: S-19040171	<u>A0</u>	Anna	ndiy 1		Page 9 o		
				endix 4				
Tast Harra	T.c. 1			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(gn)= (or 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(number of number of							
1.2	Sample stat 样品状态	经受18次冲击。 <b>us</b>						
	b1#~b4#, 右	t first cycle in f 生第一个循环完	三全充电;					
		fter 50 cycles e 玍第五十个循环		charged state	es;			
1.3	Result 测试结果							
Sample No. 样品编号		est测试前	After Tes		Mass loss 质量损失 (M<1g: 0.5%	Residual OCV 剩余电压 (≥90%)	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%)	(23070)		
b1#	156.77	12.309	156.77	12.309	0.000	100.00	0	
b2#	156.38	12.309	156.38	12.309	0.000	100.00	0	
~~''	450.00	12.307	156.08	12.307	0.000	100.00	İ	
b3#	156.08			<b>.</b>	t		0	
	155.95	12.305	155.95	12.305	0.000	100.00	0	
b3#	-	12.305 12.322	155.95 156.33	12.305 12.321	0.000	100.00 99.99		
b3# b4#	155.95						0	
b3# b4# b5#	155.95 156.33	12.322	156.33	12.321	0.000	99.99	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。



Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 10 of 15

<u>-</u>		Appendix 5						
		附表 5						
Test Items 测试项目	External short 外部短路							
1.1	Test procedu 测试步骤	Test procedure						
	temperature recondition with condition is condition is condition is condition is condition to be conclude 保持试验环境下,将其正负权	ttery to be tested shall be temperature stabilized eaches 57±4℃ and then the cell or battery shall a total external resistance of less than 0.1 ohm ontinued for at least one hour after the cell or battery must be observed to 57±4℃, the cell or battery must be observed to d. 温度稳定在57±4℃,以使电芯或电池样品外表温级用小于0.1欧姆的线路短接,待电芯或电池的外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 a further six hour for 表温度达到57±4℃, 然后表温度恢复到57±4℃之	ort circuit circuit nperature or the test ,在此温度				
1.2	b1#~b4#, 在 b5#~b8#, aft	first cycle in fully charged states; 第一个循环完全充电; er 50 cycles ending in fully charged states; 第五十个循环完全充电;						
1.3	Result 测试结果	777 T 1 1/10-170 T.70-0,						
	ple No. 品编号	Max. External Temperature 样品表面最高温度 (℃)	Test result 测试结果	Remark 备注				
k	o1#	59.3	0					
k	)2#	59.4	0					
k	o3#	59.4	0					
k	04#	59.5	0					
k	5#	59.3	0					
k	06#	59.3	0					
k	7#	59.5	0					
k	08#	59.4	0					

Over temperature

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℃



Report No.: S-190	40171A0 Page 11 of 15 Appendix 6
	附表 6
Test Items	Crush 挤压/Impact 撞击
测试项目	
1.1	Test procedure
	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 $\pm$ 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.



Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 12 of 15

·	Appendix	6	rage 12 of 13			
Test Items	附表 6 Crush 挤压/Impact 撞击					
测试项目	Orden 初度Minput 连山					
	Cells and component cells meet the	is requirement if their externa	al temperature does			
	not exceed 170°C and there is no	disassembly and no fire durir	ng the test and within			
	six hours after this test.					
	(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	品平放在一个平面上,			
	其纵轴平行于测试台面年,将一直径	全为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	g ± 0.1 kg的物体从61±2.5 cm	n的高度落向样品。样			
	品在进行试验时,其外表温度应不起	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。					
1.2	Sample status					
	样品状态					
	c1#~c5#, at first cycle at 50% of tl c1#~c5#, 在第一个循环50%的额数					
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			
	(℃)					
c1#	24.5	o				
c2#	24.6	o				
c3#	24.4	o				
c4#	24.4	o				
c5#	24.4	0				

Note:  ${\bf D}$  -Disassembly,  ${\bf R}$  -Rupture,  ${\bf F}$ -Fire,  ${\bf OT}$  -Over Temperature,  ${\bf O}$ - 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℃



Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 13 of 15

	Appendix	1					
Test Items 测试项目	Overcharge 过度充电						
<u> </u>	Test procedure 测试步骤	Test procedure					
	When the manufacturer's recommended voltage of the test shall be the lesser of 22V, whichever is less. When the manu 18V, the charging voltage of the test shall current is 2 times of the maximum chargurant 如果厂家推荐的充电电压不超过18V,本电压或者是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 chafacturer's recommended chabe 1.2 times maximum charging current recommended by 测试的最小充电电压应该是家推荐的充电电压超过18V	arge voltage of the or rge voltage is more tha ge voltage. The chargi 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						
1.3	b9# ~ b12#, 在第一个循环完全充电; b13# ~ b16#, after 50 cycles ending in fb13# ~ b16#, 在第五十个循环完全充电;						
1.3	b13#~b16#, after 50 cycles ending in fi b13#~b16#, 在第五十个循环完全充电; Result 测试结果						
<b>1.3</b> Sample No. 样品编号	b13#~b16#, after 50 cycles ending in fi b13#~b16#, 在第五十个循环完全充电:		Remark 备注				
Sample No.	b13#~b16#, after 50 cycles ending in fob13#~b16#, 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	b13#~b16#, after 50 cycles ending in feb13#~b16#, 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 b9#	b13#~b16#, after 50 cycles ending in for b13#~b16#, 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)  12.515	Test result 测试结果 O					
Sample No. 样品编号 b9# b10#	b13#~b16#, after 50 cycles ending in fi b13#~b16#, 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)  12.515  12.524	Test result 测试结果 O					
Sample No. 样品编号 b9# b10# b11#	b13#~b16#, after 50 cycles ending in fob13#~b16#, 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)  12.515  12.524  12.501	Test result 测试结果 O O					
Sample No. 样品编号 b9# b10# b11# b12#	b13#~b16#, after 50 cycles ending in for b13#~b16#, 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)  12.515  12.524  12.501  12.515	Test result 测试结果 O O O					
Sample No. 样品编号 b9# b10# b11# b12# b13#	b13#~b16#, after 50 cycles ending in fi b13#~b16#, 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)  12.515  12.524  12.501  12.515  12.510	Test result 测试结果 O O O					

注: D- 解体; F - 起火; O-无解体、无起火。



Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0 Page 14 of 15

Report No.: 5-1	55-17 IAG	Appe	ndix 8		9 14 01 15		
		· ·	長 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 supply the manufacture load of the forced discovery the initial testal by the first part of the control of the contro	y at an initial curre irer The specified di ne appropriate size a harged for a time st current(in ampere) 电芯连接在12V的直	mperature by connernt equal to the maxischarge current is to and rating in series winterval(in hours) equal in the constant of the constant o	mum discharge be obtained by vith the test cell, ual to its rated 电,此直流电源		
1.2	Sample status 样品状态						
	c6#~c15#, 在第 c16#~c25#, afte c16#~c25#, 在負	c6#~c15#, at first cycle in fully discharged states; c6#~c15#, 在第一个循环完全放电; c16#~c25#, after 50 cycles ending in fully discharged states; c16#~c25#, 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		
c6#	3.310	0	c16#	3.299	0		
c7#	3.302	0	c17#	3.295	0		
c8#	3.303	0	c18#	3.280	0		
c9#	3.296	0	c19#	3.295	0		
c10#	3.293	0	c20#	3.288	0		
c11#	3.293	0	c21#	3.289	0		
c12#	3.293	0	c22#	3.293	0		
c13#	3.291	0	c23#	3.299	0		
c14#	3.296	0	c24#	3.292	0		
c15#	3.294	0	c25#	3.290	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。



Shenzhen Precise Testing Technology Co., Ltd

Report No.: S-19040171A0

Page 15 of 15

# 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。
  Nobody is allowed to photocopy or partly photocopy this report without written permission of the lab.
- 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.
- 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".

深圳普瑞赛思检测技术有限公司

Shenzhen Precise Testing Technology Co., Ltd.

广东省深圳市光明新区公明街道塘尾水库路9号1栋厂房一楼、二楼、办公楼

Building 1, No. 9, Reservoir Road, Tangwei Community, Gongming Street,

Guangming New District, Shenzhen, Guangdong, China

TEL: 0755-23084910

E-mail: precise@ptl-global.com URL: http://www.ptl-global.com

\*\*\*报告结束\*\*\* \*\*\*END\*\*\*