





报告编号(Report No.): S-23020585A0

检测报告 TEST REPORT

NAME OF SAMPLE: Rechargeable Li-ion Polymer Cell

产品名称: 锂离子聚合物电池

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

检测类别: 委托测试





Shenzhen Precise Testing Technology Co., Ltd.

Report No.: S-23020585A0 Page 2 of 14 Applicant information 申请资料 Name of samples: Rechargeable Li-ion Polymer Cell 锂离子聚合物电池 样品名称: Type/ Model: HB106560EBW-11 3.8V 41mAh 0.1558Wh 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 Floor 1,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: Shenzhen City, Guangdong Province, P.R. China中国广东省深圳市宝安区 委托单位地址: 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-9楼 Dongguan Liwinon Energy Technology Co., Ltd. Manufacturer: 生产单位: 东莞锂威能源科技有限公司 No.1 & No.3 Workshop, Industrial Zone, Tangxia Village, Gaobu Town. Manufacturer address: Dongguan City, Guangdong Province, P.R. China 生产单位地址: 中国广东省东莞市高埗镇塘厦村工业区1号和3号厂房 silver Appearance: 样品外观颜色: 银色 Rechargeable Li Polymer Cell Sample Type 样品类型 可充式锂聚合物电芯 Sample status: Good 完好 样品状态:

测试完成日期: Conclusion/结论:

Quantity of sample:

Sample identification:

样品数量:

接样日期: Testing date:

样品标识序号: Receiving date:

测试开始日期: Completing date:

The submitted samples comply with the requirements of UNITED MATIONS Section 38.3 of the seventh revised edition Amend 1 of the Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7/Amend.1/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》第七修订版修正1第38.3节的要 求。

Seal/报告专用章

Date of issue: 2023-03-15

40pcs

c1# ~c40#

2023-02-25

2023-02-27

2023-03-09



Approved by: 报告批准:





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	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		
1	Altitude simulation 高度模拟	See Appendix 1	Р		
2	Thermal test 温度测试	See Appendix 2	Р		
3	Vibration 振动	See Appendix 3	Р		
4	Shock 冲击	See Appendix 4	Р		
5	External Short-circuit 外部短路	See Appendix 5	Р		
6	Crush 挤压	See Appendix 6	Р		
o o	Impact 撞击	See Appendix 6	N/A		
7	Overcharge 过度充电	See Appendix 7	N/A		
8	Forced discharge 强制放电	See Appendix 8	Р		





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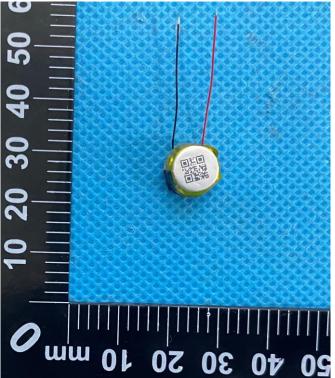
Photos of samples and markings

样品及标识照片

CELL(HB106560EBW-11 3.8V 41mAh 0.1558Wh)









Test Items

测试项目

1.1

rupture, no fire.

Altitude simulation

Test procedure

高度模拟

深圳普瑞赛思检测技术有限公司

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Appendix 1 附表 1

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1.1	测试步骤	uuie					
	ambient ten	nperature (20:	±5℃).	•	of 11.6kPa or less 等于11.6kPa的压力		
1.2	Sample sta 样品状态	itus					
	states.	•	, ,		10#, after 25 cycles 25个循环完全充电。	ending in full	y charged
1.3	测试结果						
Sample No.	Before To	est测试前	After Test测试后		Mass loss 质量损失	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)	(%)	剩余电压 (≥90%)	测试结果
c1#	0.932	4.335	0.932	4.330	0.000	99.88	0
c2#	0.934	4.335	0.934	4.331	0.000	99.91	0
c3#	0.935	4.336	0.935	4.334	0.000	99.95	0
c4#	0.936	4.336	0.936	4.333	0.000	99.93	0
c5#	0.935	4.335	0.934	4.334	0.107	99.98	0
c6#	0.930	4.334	0.929	4.332	0.108	99.95	0
c7#	0.932	4.336	0.931	4.332	0.107	99.91	0
c8#	0.934	4.335	0.934	4.333	0.000	99.95	0
c9#	0.938	4.335	0.938	4.330	0.000	99.88	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。



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			-	pendix 2 附表 2				
Test Items 测试项目	Thermal tes 温度测试	t	·					
1.1	Test procedure 测试步骤							
	followed by time interval until 10 total hours at am 将电芯和电流 于6个小时,	storage for a l between tes l cycles are bient temper 也在温度为72	at least six h st temperatur complete, af ature (20±5℃ 2±2℃的条件 ⁵ 分间隔最长为	ours at a tes re extremes i ter which all C). 下贮存不少于	six hours at a test to t temperature equal in 30 minutes, This test cells and batte 6个小时,然后,在 操作上述步骤直到10	l to -40±2℃, Th procedure is to eries are to be s 温度-40±2℃条件	ne maximum be repeated tored for 24 中下贮存不少	
1.2	Sample sta 样品状态	tus						
	states.	•	, ,	-	#~c10#, after 25 cy 在第25个循环完全剂	· ·	Illy charged	
1.3	Result 测试结果							
Sample No. 样品编号	Before Te Mass 样品质量 (g)	Post测试前 Voltage 开路电压 (V)	After Te Mass 样品质量 (g)	st测试后 Voltage 开路电压 (V)	Mass loss 质量损失 (%)	Residual OCV 剩余电压 (≥90%)	Test result 测试结果	
c1#	0.932	4.330	0.931	4.283	0.107	98.91	0	
c2#	0.934	4.331	0.933	4.284	0.107	98.91	0	
c3#	0.935	4.334	0.934	4.284	0.107	98.85	0	
c4#	0.936	4.333	0.935	4.284	0.107	98.87	0	
c5#	0.934	4.334	0.933	4.283	0.107	98.82	0	
c6#	0.929	4.332	0.928	4.282	0.108	98.85	0	
c7#	0.931	4.332	0.930	4.283	0.107	98.87	0	
c8#	0.934	4.333	0.933	4.284	0.107	98.87	0	
c9#	0.938	4.330	0.937	4.281	0.107	98.87	0	
c10#	0.935	4.333	0.934	4.283	0.107	98.85	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。



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		Appendix 3			
		附表 3			
Test Items 测试项目	Vibration 振动				
1.1	Test procedure 测试步骤				
	cells in such a manner as wave form with a logarithr minutes, This cycle shall be perpendicular mounting p 将电芯和电池牢固地安装	在振动台的台面上,然后。 Hz为一个循环,一个循环持	oration, The vibration nd 200 Hz and back total of 3 hours for ea 开始振动。振动以正	shall be a sinuto 7 Hz travers ach of three mu 弦波形式,以	usoidal led in 15 utually 7Hz增加至
1.2	Sample status 样品状态				
	states.	fully charged states; c6#~ 完全充电; c6#~c10#,在	•		y charged
1.3	Result 测试结果				
	Before Test测试前	After Test测试后	Mass loss	Residual	Toot

Sample No.	Before Te	est测试前	After Te	est测试后	Mass loss 质量损失	Residual OCV 剩余电压 (≥90%)	Test result 测试结果
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)	(%)		
c1#	0.931	4.283	0.931	4.280	0.000	99.93	0
c2#	0.933	4.284	0.933	4.279	0.000	99.88	0
c3#	0.934	4.284	0.934	4.281	0.000	99.93	0
c4#	0.935	4.284	0.935	4.282	0.000	99.95	0
c5#	0.933	4.283	0.933	4.280	0.000	99.93	0
c6#	0.928	4.282	0.928	4.278	0.000	99.91	0
c7#	0.930	4.283	0.930	4.279	0.000	99.91	0
c8#	0.933	4.284	0.933	4.281	0.000	99.93	0
c9#	0.937	4.281	0.937	4.275	0.000	99.86	0
c10#	0.934	4.283	0.934	4.278	0.000	99.88	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。



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Report No.: S-23020585A0 Page 8 of 14 Appendix 4 附表 4 Shock Test Items 测试项目 冲击 Test procedure 1.1 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(g_n)= $\sqrt{\frac{(00850)}{mass}}$, which is smaller) and pulse duration of 6 milliseconds, large batteries shall be subjected to a half-sine of peak acceleration of $50g_n$ (or Acceleration(g_n)= $\sqrt{\frac{50000}{mass}}$, 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⁽¹⁰⁰⁸⁹⁾中的较小值)的半正弦的加速度撞击,脉冲持续6毫秒,大型 电池组须经受最大加速度50gn(或与⁽³⁰⁰⁰⁾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。 Sample status 1.2 样品状态 c1# ~ c5#, at first cycle in fully charged states; c6# ~ c10#, after 25 cycles ending in fully charged c1#~c5#,在第一个循环完全充电;c6#~c10#,在第25个循环完全充电。 Result 1.3 测试结果 Before Test测试前 After Test测试后 Residual Mass loss Test Sample No. OCV 质量损失 Mass Voltage Mass Voltage result 样品编号 剩余电压 样品质量 开路电压 样品质量 开路电压 测试结果 (%) (≥90%) (V) (g) (g) (V) 0.931 4.280 0.931 4.280 100.00 c1# 0.000 0 0 c2# 0.933 4.279 0.933 4.279 0.000 100.00 c3# 0.934 4.281 0.934 4.281 0.000 100.00 0 4.282 0.935 4.282 0 c4# 0.935 0.000 100.00 c5# 0.933 4.280 0.933 4.280 0.000 100.00 0 4.278 0.928 4.278 100.00 c6# 0.928 0.000 0 4.279 4.279 0 c7# 0.930 0.930 0.000 100.00 c8# 0.933 4.281 0.933 4.281 0.000 100.00 0 4.275 0.937 4.275 0.000 100.00 c9# 0.937 0

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

4.278

0.000

100.00

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。

0.934

4.278

0.934

c10#



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Over temperature

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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	Appendix 6
Test Items	附表 6
测试项目	Crush 挤压/Impact 撞击
	To at muse a divine
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 \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 ± 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. 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	6					
附表 6						
Crush 挤压/Impact 撞击						
Cells and component cells meet this	requirement if their extern	al temperature does				
not exceed 170°C and there is no dis	sassembly and no fire duri	ng the test and within				
six hours after this test.						
其纵轴平行于测试台面年,将一直径 心位置。然后,将一质量为9.1kg±0.	(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 其纵轴平行于测试台面年,将一直径为15.8mm±0.1 mm的316型不锈钢棒横放在电池位置。然后,将一质量为9.1kg±0.1kg的物体从61±2.5 cm的高度落向样品。样在进行试验时,其外表温度应不超过170℃。且试验结束后6个小时之内,样品应无体。无起火现象发生					
Sample status						
样品状态	The state of the s	.10#				
cycles ending at 50% of the design rec11#~c15#, 在第一个循环50%的额	ated capacity.					
Result						
测试结果		_				
·		Remark				
样品表面最高温度(℃)	测试结果 	备注				
47.4	0	/				
50.8	0	/				
46.1	0	1				
83.0	0	/				
82.5	0	/				
71.4	0	/				
58.6	0	/				
82.5	0	/				
51.2	0	/				
	0	,				
	Crush 挤压/Impact 撞击 Cells and component cells meet this not exceed 170°C and there is no dissix hours after this test. (适用于直径不小于18毫米的圆柱形电其纵轴平行于测试台面年,将一直径心位置。然后,将一质量为9.1kg±0.在进行试验时,其外表温度应不超过体、无起火现象发生。 Sample status 样品状态 c11# ~ c15#, at first cycle at 50% of cycles ending at 50% of the design rec11# ~ c15#, 在第一个循环50%的额容量。 Result 测试结果 Max. External Temperature 样品表面最高温度(℃) 47.4 50.8 46.1 83.0 82.5 71.4 58.6	Crush 挤压/Impact 撞击 Cells and component cells meet this requirement if their extern not exceed 170°C and there is no disassembly and no fire duri 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 其级轴平行于测试合面年,将一直径为15.8mm±0.1 mm的316型 心位置。然后,将一质量为9.1kg±0.1kg的物体从61±2.5 cmf 在进行试验时,其外表温度应不超过170℃。且试验结束后6个点体、无起火现象发生。 Sample status 样品状态 C11#~c15#, at first cycle at 50% of the design rated capacity cycles ending at 50% of the design rated capacity. c11#~c15#, 在第一个循环50%的额定容量:c16#~c20#, 在容量。 Result 测试结果 Max. External Temperature				

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℃



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	Appendix 附表 7						
Test Items 测试项目	Overcharge 过度充电						
1.1	Test procedure 测试步骤	Test procedure 测试步骤					
	When the manufacturer's recomm minimum voltage of the test shall be voltage of the or 22V, whichever charge voltage is more than 18V, the maximum charge voltage. The charge current recommended by the man 如果厂家推荐的充电电压不超过18大充电电压或者是22V,取其中较应该为 1.2倍的厂家标定最大充电	pe the lesser of two times is less. When the manufacte charging voltage of the teging current is 2 times of tufacturer。 V,本测试的最小充电电压小者。如果厂家推荐的充电	the maximum charge turer's recommended st shall be 1.2 times the maximum charging E应该是两倍的厂家标定最出电压超过18V,充电电压				
1.2	Sample status 样品状态						
	/						
1.3	Result 测试结果						
Sample No. 样品编号	Voltage Before test(V) 测试前开路电压(V)	Test result 测试结果	Remark 备注				
/	/	/	/				
/	/	/	/				
/	/	/	/				
1	/	/	1				
/	/	/	/				
/	/	/	/				
/	/	/	/				
	1	/					

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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		• •	ndix 8		
		附表	表 8		
Test Items 测试项目	Forced discharge 强制放电				
1.1	Test procedure 测试步骤				
	a 12V D. C, pow specified the man a resistive load of be forced dischar initial test current 在20±5℃的环境溢供每个电芯初始电	er supply at an ufacturer The so the appropriat ged for a time (in ampere). 是度下,将单个	n initial current equal specified discharge o e size and rating in s interval(in hours) equ 电芯连接在12V的直	perature by connecting all to the maximum distributed in the maximum distributed in the test cell and to its rated capacion capaci	ischarge curre ed by connectir II, Each cell sha ty divided by th 电,此直流电源
1.2	Sample status 样品状态				
	in fully discharged	d states.		c31#~c40#, after 25 #, 在第25个循环完全	
1.3	Result 测试结果				
Sample No. 样品编号	Voltage Before	Test result	Sample No.	Voltage Before	
件如細亏	test 测试前开路电压 (V)	测试结果	样品编号	test 测试前开路电压 (V)	Test result 测试结果
作印细 写	测试前开路电压	测试结果 O		test 测试前开路电压	
	测试前开路电压 (V)		样品编号	test 测试前开路电压 (V)	测试结果
c21#	测试前开路电压 (V) 3.545	0	样品编号 c31#	test 测试前开路电压 (V) 3.533	测试结果 O
c21# c22#	测试前开路电压 (V) 3.545 3.533	0	样品编号 c31# c32#	test 测试前开路电压 (V) 3.533 3.533	测试结果 O
c21# c22# c23#	测试前开路电压 (V) 3.545 3.533 3.564	0 0 0	样品编号 c31# c32# c33#	test 测试前开路电压 (V) 3.533 3.533 3.543	测试结果 O O
c21# c22# c23# c24#	测试前开路电压 (V) 3.545 3.533 3.564 3.528	0 0 0	样品编号 c31# c32# c33# c34#	test 测试前开路电压 (V) 3.533 3.533 3.543 3.543 3.538	测试结果
c21# c22# c23# c24# c25#	测试前开路电压 (V) 3.545 3.533 3.564 3.528 3.569	0 0 0 0	样品编号 c31# c32# c33# c34# c35#	test 测试前开路电压 (V) 3.533 3.533 3.543 3.538 3.510	测试结果
c21# c22# c23# c24# c25# c26#	测试前开路电压 (V) 3.545 3.533 3.564 3.528 3.569 3.525	0 0 0 0 0	样品编号 c31# c32# c33# c34# c35# c36#	test 测试前开路电压 (V) 3.533 3.533 3.543 3.543 3.538 3.510 3.574	测试结果
c21# c22# c23# c24# c25# c26# c27#	测试前开路电压 (V) 3.545 3.533 3.564 3.528 3.569 3.525 3.506	0 0 0 0 0	样品编号 c31# c32# c33# c34# c35# c36# c37#	test 测试前开路电压 (V) 3.533 3.533 3.543 3.543 3.538 3.510 3.574 3.541	测试结果 O O O O O O O

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注意事项

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 The results shown in the report only apply to the sample(s) as tested.
- 6. 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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