报告编号（Report No.）：S-20060032A0

检测报告
TEST REPORT

NAME OF SAMPLE: Rechargeable Li-ion Polymer Battery
产品名称：锂离子聚合物电池组

CLIENT: SUNWODA Electronic Co.,Ltd.
委托单位：欣旺达电子股份有限公司

CLASSIFICATION OF TEST: Package drop test
检测类别：包装跌落测试

深圳普瑞赛思检测技术有限公司
Shenzhen Precise Testing Technology Co., Ltd.

Applicant information 申请资料	
委托单位 Commission by	欣旺达电子股份有限公司 SUNWODA Electronic Co.,Ltd.
委托单位地址 Commissioner address	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-9楼 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, Shenzhen City, Guangdong Province, P.R. China
生产厂 Factory	欣旺达电子股份有限公司第六分公司 Sunwoda Electronic Co., Ltd. Sixth Branch
生产厂地址 Factory address	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 Northeast of Intersection of Keyu Road and Tongguan Road, Gongming Street, Guangming New District, Shenzhen City, Guangdong Province, P.R. China
样品名称 Name of goods	锂离子聚合物电池组 Rechargeable Li-ion Polymer Battery
样品型号规格 Type/Mode	JK50 3.8V 4850mAh 18.5Wh(Rated) 5000mAh 19.0Wh(Typ.)
接样日期 Receiving date	2020-06-04
测试日期: Testing date	2020-06-05
完成日期 Completing date	2020-06-05
测试标准 Tested according to:	ST/SG/AC.10/1/Rev.21

Conclusion/结论：

The 1.2m drop test of the packages for the sample is tested according to the 21th Revised Edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations (ST/SG/AC 10/1/ Rev.21)

样品包装件1.2m跌落测试依据《关于危险品货物运输的建议书》规章范本第21修订版进行检测。

The test results comply with the relevant requirements of ST/SG/AC.10/1/Rev.21.

试验结果符合《关于危险品货物运输的建议书》规章范本第21修订版相关要求。

Seal/报告专用章：

Date of issue: 2020-06-07

Approved by:
批准：
Title: Manager
职务：经理

Tested by:
测试：
Engineer
工程师

样品描述及说明 Description and illustration	
包装件信息 **The information of package**	
包装件编号 Package No.	1# - 5#
包装件重量 Package quantity	9.714kg
电池净重 Battery net weight	7.128kg
电池个数 Battery number	108pcs
包装件尺寸 Package size	295mm*253mm*220mm
外包装材料 **The material of outer packaging**	
■硬纸板箱 Corrugated carton ☐木板箱 Wood carton ☐其他 Other	
内包装方式 **The manner of inner packaging**	
☐泡沫材料 Foam material ■吸塑盘 Plastic disc ☐纸板隔板 Paper divider ☐塑料气泡与珍珠棉 Plastic bubble and pearl cotton ☐独立小包装 Independent packaging ☐其他 Other	
测试结果不符合标准项的说明： Description of the deviation from the standard, if any: /	
备注： Remarks: /	

样品包装照片及其标识
Photos of Packages and Label

包装箱**/ package**
测试前
Before test

1# - 5#





测试后
After test



Annex 1: Test procedure and result

ST/SG/AC.10/1/Rev.21			
Clause 章节	**Requirements 标准要求**	**Test Result 测试结果**	**Conclusion 结论**
6.1.5.3	**1.2米跌落测试 / 1.2m Drop test** **测试步骤 / Test procedure** 电池包装件从1.2 米跌落/ The package of batteries is dropped from 1.2m **跌落方向 / Drop orientation:** 如在一次跌落试验中可能有一种以上的方向，须选择最易使包装损坏的跌落方向。/ Where more than one orientation is possible for a given drop, the orientation most likely to result in failure of the packing must be used. 箱状包装的跌落方向/ Drop orientation for a package which are in the shape of a box.: 第一次：以箱底平跌。/ First drop: Flat on the bottom 第二次：以箱顶平跌。/ Second drop: Flat on the top 第三次：以一个长侧面平跌。/ Third drop: Flat on the long side 第四次：以一个短侧面平跌。/ Fourth drop: Flat on the short side 第五次：以一个角跌落。/ Fifth drop: on the corner **跌落目标 / Drop Target:** 跌落目标须为坚硬、无弹性的水平表面且须/The target must be a non-resilient horizontal surface and must be : (a) 足够完整、厚重以固定不动/integral and massive enough to be immovable ; (b) 表面平坦，无影响试验结果的局部缺陷/flat with a surface kept free from local defects capable of influencing the test results; (c) 具有足够的刚性，在试验条件下不会变形并不会被试验所损坏/rigid enough to be non-deformable under test conditions and not liable to become damaged by the tests ; (d) 具有足够大的规格以便试验包装完全跌落在表面上/sufficiently large to ensure that the test package falls entirely upon the surface .	包装件内的电池或电芯无损坏，无相互接触，包装件内容物未漏出。 No damage to batteries or cells; Did not happen shifting of the contents so as to allow battery to battery (or cell to cell) contact and release of contents.	P
3.3.1	**要求 / Requirements**		
Special provision 188 (g)	每个包装件须能承受任何方向1.2米的跌落试验，且包装件内的电池或电芯不发生损坏，未出现包装件内容物的移位导致电池与电池（或电芯与电芯）接触以及包装件内容物露出。 Except when cells or batteries are installed in equipment, each package shall be capable of withstanding a 1.2 m drop test in any orientation without damage to cells or batteries contained therein, without shifting of the contents so as to allow battery to battery(or cell to cell)contact and without release of contents.		

注 意 事 项
Important Information

1. 本报告无批准人签名和 “报告专用章”无效。
   The test report is effective only with both the signature of approver and the report stamp of the laboratory.

2. 除全文复制外，未经批准不得部分复制报告。
   This report can’t be reproduced except in full, without approval of the laboratory.

3. 本报告私自转让、盗用、冒用、涂改、或以任何媒体形式篡改均属无效。
   The test report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.

4. 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.

5. 本报告检测结果仅对受试样品有效。
   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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END OF REPORT