

堆码试验报告

Stacking Test Report

报告编号: LA2024B0632001S
Report No.:

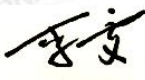
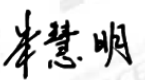
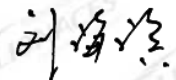
样品名称 Samples	锂离子电池 Lithium-ion Battery
样品型号 Model	LX 18650
委托单位 Applicant	东莞市力兴电池有限公司 Dongguan LIXING Battery Co., Ltd.
签发日期 Issue Date	2024-05-07

深圳市莱恩瑞斯科技有限公司
Shenzhen Lionaces Technology Co., Ltd.

报告专用章

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by Lionaces. It cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed on the website, <http://www.lionaces.com>

1. 样品描述 Sample Description

电池描述 Battery Description					
电池名称 Sample name	锂离子电池 Lithium-ion Battery				
样品型号 Sample model	LX 18650	电池规格 Battery specification	3.7V, 2200mAh, 8.14Wh		
实验室 Laboratory	深圳市莱恩瑞斯科技有限公司 Shenzhen Lionaces Technology Co., Ltd.				
实验地址 Testing address	深圳市宝安区福海街道和平社区永和路骏丰工业区 B6 栋 301 301, Building B6, Junfeng Industrial Zone, Yonghe Road, Heping Community, Fuhai Street, Baoan, Shenzhen, Guangdong, China				
委托单位 Applicant	东莞市力兴电池有限公司 Dongguan LIXING Battery Co., Ltd.				
委托单位地址 Applicant address	广东省东莞市大岭山镇颜屋龙园路 42 号 2 栋 201 室 Room 201, Building 2, No. 42 Longyuan road, Yanwu Dalingshan town, Dongguan, Guangdong, P.R.China				
包装件生产企业 Packaging parts manufacturer	东莞市力兴电池有限公司 Dongguan LIXING Battery Co., Ltd.				
包装容器生产企业 Packing receptacle manufacturer	东莞市海洋纸品有限公司 Dongguan Haiyang Paper Co., Ltd				
包装件描述 Packaging Description					
外包装 Outer package	瓦楞纸箱 Corrugated carton	内包装 Inner package	纸盒 Paper Box		
衬垫材料 Cushion	纸卡 Paper Card	包装件尺寸 Dimension	430mm*220mm*176mm		
包装件毛重 Gross weight	8.5Kg	电池尺寸 Battery dimension	Φ18.47mm*68.08mm		
包装件电池净重 Net weight	7.436Kg	电池数量 Battery number	162Pcs		
收样日期 Receiving Date	2024-04-23	完成日期 Completing Date	2024-05-07		
包装方式 Packaging type	包装箱内含锂电池。 Package including lithium batteries.				
主检人: Prepared by		审核人: Checked by		批准人: Approved by	

2. 参考方法 Reference Method

(ST/SG/AC.10/1/Rev.22) 《关于危险货物运输的建议书——规章范本》
《Recommendations On The Transport Of Dangerous Goods-Model Regulations》

3. 测试项目 Test Item

堆码试验 Stacking test

4. 测试方法及标准要求 Test methods and standard requirements

4.1 试验样品数量:每种设计类型和每个制造厂家 3 个试验样品。

Number of test samples: three test samples per design type and manufacturer.

4.2 试验方法:在试验样品的顶部表面施加一力量,此力相当于运输时可能堆叠在它上面的同样数量包装件的总重量。如果试验样品内装的液体相对密度与待运液体的不同,则该力应按后者计算。包括试验样品在内的最小堆码高度应是 3 米。试验时间为 24 小时,但拟装液体的塑料桶、罐和复合包装 6HH1 和 6HH2,应在不低于 40°C 的温度下经受 28 天的堆码试验。

Test method: the test sample shall be subjected to a force applied to the top surface of the test sample equivalent to the total weight of identical packages which might be stacked on it during transport; where the contents of the test sample are liquids with relative density different from that of the liquid to be transported, the force shall be calculated in relation to the latter. The minimum height of the stack including the test sample shall be 3 meters. The duration of the test shall be 24 hours except that plastics drums, jerricans, and composite packagings 6HH1 and 6HH2 intended for liquids shall be subjected to the stacking test for a period of 28 days at a temperature of not less than 40°C.

4.3 通过试验的标准:试验样品不得泄漏。对复合或组合包装而言,不得有所装的物质从内贮器和内包装中漏出。试验样品不得显出可能对运输安全有不利影响的损坏,或者可能降低其强度或造成包装件堆码不稳定的变形。在进行评估之前,塑料包装应冷却至环境温度。

Criterion for passing the test: no test sample may leak. In composite packagings or combination packagings, there shall be no leakage of the filling substance from the inner receptacle or inner packaging. No test sample may show any deterioration which could adversely affect transport safety or any distortion liable to reduce its strength or cause instability in stacks of packages. Plastics packagings shall be cooled to ambient temperature before the assessment.

5. 测试设备 Test equipment

LA-BT-E109 电池纸箱堆码试验机 Battery carton stacking test machine

LA-BT-E112 电池纸箱堆码试验机 Battery carton stacking test machine

LA-BT-E113 电池纸箱堆码试验机 Battery carton stacking test machine

6. 实验室环境条件 Test Environment Condition

温度 Ambient temperature: 23±2 (°C)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by Lionaces. It cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed on the website, <http://www.lionaces.com>

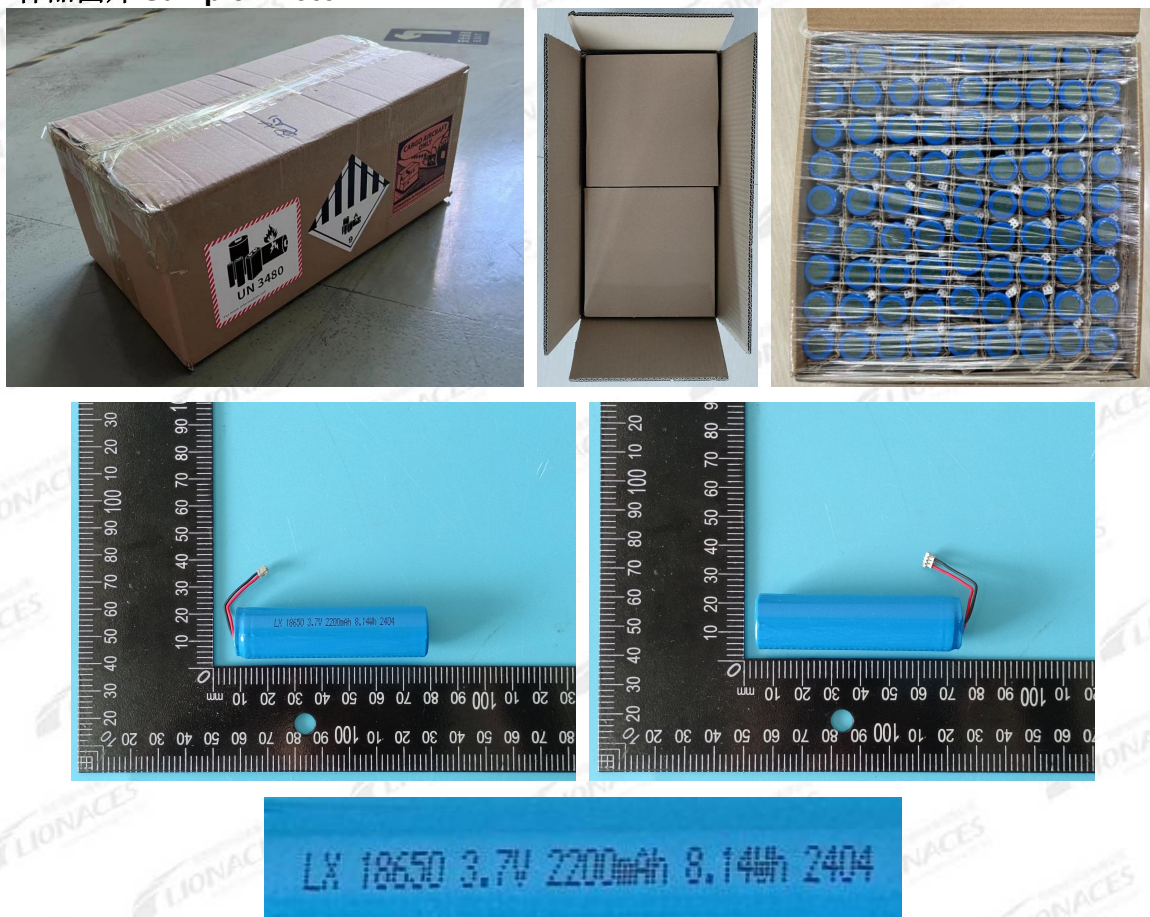
相对湿度 Ambient humidity: 50 ± 2 (%)

7. 测试结果 Test Data

编号 No.	单个包装高度 Height of individual packages h(m)	单个包装件质量 Quality of individual packages m(kg)	加载的载荷 Loaded load (kg)	试验时间 Testing time (h)	结论 Conclusion
1#	0.176	8.5	136.39	24	Pass
2#	0.176	8.5	136.39	24	Pass
3#	0.176	8.5	136.39	24	Pass

被测试包装件能够承受堆码试验。
The test package is capable of withstanding a Stacking test in any orientation.

8. 样品图片 Sample Photo



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by Lionaces. It cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessed and confirmed on the website, <http://www.lionaces.com>

声 明

Statement

- 1、本报告无本单位报告专用章和批准人签章无效。

This report is invalid without the special seal for report of Lionaces and the signatures of approver.

- 2、本报告涂改和删除无效。

This report is invalid if it is blotted out and deleted.

- 3、委托单位对检测结果有异议，应于收到报告之日起十五日内向我司提出。

If the applicant has any questions about results, shall submit to Lionaces within 15 days.

- 4、本报告仅对客户所送样品负责。

This report is responsible for the sample provided by the client only.

- 5、未经本单位许可，不得部分复制、摘用本报告书内容。

This report shall not be reproduced except in full, or extracted, without the written approval of Lionaces.

- 6、有关报告中的产品信息、参数、图纸、关键元器件清单等所有产品信息均由委托单位提供，委托单位必须如实提供样品和资料，否则本单位不承担任何相关责任。

All of information such as product information, parameters, drawings, components, etc. are provided by the applicant. The applicant must provide samples and materials truthfully. Otherwise we will not take on any relevant responsibilities for this report.

----报告结束----

----End of report----