

堆码试验报告 Stacking Test Report

报告编号: LA2024B0733001S
Report No.:

样品名称
Samples

锂离子电池
Lithium-ion Battery

样品型号
Model

LX 18650 3400mAh

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

2024-05-31

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

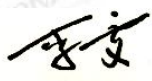
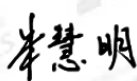
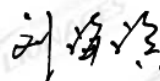
报告专用章

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1. 样品描述 Sample Description

电池描述 Battery Description					
电池名称 Sample name		锂离子電池 Lithium-ion Battery			
样品型号 Sample model		LX 18650 3400mAh	電池規格 Battery specification		3.6V, 3400mAh, 12.24Wh
實驗室 Laboratory		深圳市萊恩瑞斯科技有限公司 Shenzhen Lionaces Technology Co., Ltd.			
實驗地址 Testing address		深圳市宝安区福海街道和平社区永和路骏丰工业區 B6 栋 301 301, Building B6, Junfeng Industrial Zone, Yonghe Road, Heping Community, Fuhai Street, Baoan, Shenzhen, Guangdong, China			
委託單位 Applicant		东莞市力兴電池有限公司 Dongguan LIXING Battery Co., Ltd.			
委託單位地址 Applicant address		广东省东莞市大岭山镇顏屋龍园路 42 号 2 栋 201 室 Room 201, Building 2, No. 42 Longyuan road, Yanwu Dalingshan town, Dongguan, Guangdong, P.R.China			
包裝件生產企業 Packaging parts manufacturer		东莞市力兴電池有限公司 Dongguan LIXING Battery Co., Ltd.			
包裝容器生產企業 Packing receptacle manufacturer		东莞市海洋紙品有限公司 Dongguan Haiyang Paper Co., Ltd			
包裝件描述 Packaging Description					
外包装 Outer package		瓦楞紙箱 Corrugated carton	內包裝 Inner package		紙盒 Paper Box
衬垫材料 Cushion		紙卡 Paper Card	包裝件尺寸 Dimension		430mm*220mm*176mm
包裝件毛重 Gross weight		9.0Kg	電池尺寸 Battery dimension		Φ18.68mm*69.07mm
包裝件電池淨重 Net weight		7.94Kg	電池數量 Battery number		162Pcs
收样日期 Receiving Date		2024-05-17	完成日期 Completing Date		2024-05-31
包裝方式 Packaging type		包裝箱內含鋰電池。 Package including lithium batteries.			
主检人： Prepared by			审核人： Checked by		
			批准人： Approved by		

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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)

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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	9.0	144.41	24	Pass
2#	0.176	9.0	144.41	24	Pass
3#	0.176	9.0	144.41	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



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----End of report----