

# Stacking Test Report

## 堆码试验报告

Applicant's name 委托方名称	KEEPOWER TECHNOLOGY CO., LIMITED 东莞市领泽电子科技有限公司
Applicant's Address 委托方地址	701, Bld 1, 4 Baoshi Road, Jiaoyitang, Tangxia Town, Dongguan, China 广东省东莞市塘厦镇蛟乙塘宝石路4号1栋701
Name of Goods 货物名称	Rechargeable Li-ion Battery P1850C4 3.7V 2600mAh 9.62Wh 可充电锂离子电池 P1850C4 3.7V 2600mAh 9.62Wh
Testing Laboratory 测试实验室	Shenzhen TCT Testing Technology Co., Ltd. 深圳市通测检测技术有限公司 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China 广东省深圳市宝安区福海街道桥头社区稔山工业区振昌胶粘制品厂 2101、2201
Report No. 报告编号	TCT240702T011
Date of Issue 签发日期	2024. 07. 09
Test Type 检验类别	Testing by delegation 委托测试
Test Conclusion 测试结论: The test results are qualified. 测试结果为合格。	

Tested by 主检人: Nonne Jia 贾青

Approved by 批准人: Evan Chen 陈祖铭

Reviewer by 审核人: Amy Zeng 曾

Seal of TCT 报告单位 (盖章):



**I、General product information 一般产品信息:**

<b>Name of Goods</b> 货物名称	Rechargeable Li-ion Battery P1850C4 3.7V 2600mAh 9.62Wh 可充电锂离子电池 P1850C4 3.7V 2600mAh 9.62Wh		
<b>Packaging Container Manufacturer</b> 包装容器生产商	Shenzhen Tianyu Paper Products Co., Ltd. 深圳市天宇纸品有限公司		
<b>Packaging Container Manufacturer's Address</b> 包装容器生产商地址	Floor 4, Building 5, Jinhuanu Science Park, Changfeng Road, Fenghuang Street, Guangming District, Shenzhen 深圳市光明区凤凰街道长凤路金环宇科技园 5 栋 4 楼		
<b>Packaging Parts Manufacturer</b> 包装件生产商	KEEPOWER TECHNOLOGY CO., LIMITED 东莞市领泽电子科技有限公司		
<b>Packaging Parts Manufacturer's Address</b> 包装件生产商地址	701, Bld 1, 4 Baoshi Road, Jiaoyitang, Tangxia Town, Dongguan, China 广东省东莞市塘厦镇蛟乙塘宝石路 4 号 1 栋 701		
<b>Shape</b> 形状	Prismatic 棱柱形	<b>Trade Mark</b> 商标	----
<b>Packaging dimensions</b> 包装尺寸 (L×W×T)	(40.0×30.0×23.0)cm	<b>Battery number per packaging</b> 每包装件电池数量	160PCS
<b>Net weight of batteries per package</b> 每包装件电池的净重	5.85kg	<b>Gross weight per package</b> 每包装件毛重	8.12kg
<b>Number of stacking layers</b> 堆码层数	14	<b>The required compressive strength of the carton</b> 纸箱所需抗压强度	105.56kgf
<b>Start Testing Date</b> 开始测试日期	2024-07-02	<b>Completing Date</b> 完成日期	2024-07-09

## II、Test Standard 检测标准

United Nations "Recommendations on the Transport of Dangerous Goods-Model Regulations" (Rev.23)  
6.1.5.6  
联合国《关于危险货物运输的建议书-规章范本》(23 修订版) 6.1.5.6

## III、TEST ITEM 检测项目

Stacking test 堆码试验

## IV、Test Method and Requirement 检测方法和要求

Ambient temperature 环境温度:  $23 \pm 2^{\circ}\text{C}$

Ambient humidity 环境湿度:  $50 \pm 2\%\text{RH}$ ;

Paper or fibreboard packagings shall be conditioned for at least 24 hours in an atmosphere having a controlled temperature and relative humidity (r.h.).

纸和纤维板包装应在控制温度和相对湿度的环境下至少放置 24 小时;

Press plate moving speed 压板移动速度: 10mm/min

Pre pressure 预压力: 105.56kgf

The required compressive strength of the carton

$$= \left( \frac{3m}{\text{Height of single packing case (m)}} - 1 \right) * \text{Weight of single package. The load lasts for 24 hours.}$$

纸箱所需抗压强度 =  $\left( \frac{3m}{\text{单个包装箱高度 (m)}} - 1 \right) \times \text{单个包装箱重量}$ , 负荷持续 24 小时。

Test requirements 试验要求:

1. The samples in the packing case are not damaged or leaked;  
包装箱中的样品没有损坏或泄漏;
2. The test sample must not be damaged in a way that may adversely affect the safety of transport, or deform that may reduce its strength or cause unstable stacking of the package.  
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;
3. In the case of composite or combination packaging, the contents shall not leak out of the inner receptor and inner package.  
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。

## V、TEST APPARATUS 检测仪器

Serial No. 设备编号	Name of Equipment 设备名称	Model 型号	Calibration Date /Due Date 校准日期/到期日
TC-B117	Carton stacking machine 纸箱堆码试验机	GX-6010-M	2023. 10. 28
			2024. 10. 27
TC-B67	Electronic Platform Scale 电子台秤	TCS-150	2024. 06. 27
			2025. 06. 26
TC-B104	Tape measure 卷尺	TH-2103	2024. 02. 03
			2025. 02. 02

## VI、TEST RESULT 检测结果

Drop position 样品编号	Test status 测试结果	Conclusion 结论
TS240531028X1- X3	<p>After the test 测试后:</p> <ol style="list-style-type: none"><li>The samples in the packing case are not damaged or leaked; 包装箱中的样品没有损坏或泄漏;</li><li>The test sample does not show damage that may adversely affect the safety of transportation, or deformation that may reduce its strength or cause unstable stacking of the package; 试验样品未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;</li><li>In the case of composite or combination packaging, the contents shall not leak out of the inner receptor and inner package. 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。</li></ol>	Pass 合格



Ⅶ、Appendix Photos 附录图片



## Important Notice

### 注意事项

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对报告书若有异议，应于收到报告之日起 15 天内向本公司提出。
6. The test report is valid for the tested samples only.  
本报告仅对本次测试样品有效。
7. The Chinese contents in this report are only for reference.  
本报告中的中文内容仅供参考。

\*\*\*\*\*End of Report 报告结束\*\*\*\*\*