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中国认可  
国际互认  
检测  
TESTING  
CNAS L11167

# 检测报告

## TEST REPORT

**Sample Name:** Rechargeable Li-ion Cell  
样品名称: 可充电锂离子电芯

**Model:** P11  
型号:

**Applicant:** Chongqing VDL Electronics Co.,Ltd.  
申请商: 重庆市紫建电子股份有限公司

**Report No.:** CQZJ20250304DM01  
报告编号:

**Test Item:** Stacking test  
检测项目: 堆码试验

广州三帕认证技术服务有限公司

Guangzhou CPUP Certification Technology Service Co., Ltd.



Guangzhou CPUP Certification Technology Service Co., Ltd.

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<b>TEST REPORT</b> <b>检测报告</b> <b>UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations" Twenty-third revised edition, Chapter 6.1, Clause 6.1.5.6: Stacking test</b> <b>联合国《关于危险货物运输建议书 规章范本》第 23 修订版, 第 6.1 章, 6.1.5.6 条款: 堆码试验</b>	
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Address/地址..... :	Building 1-4, Puli Industrial New Area, Zhaojia Street, Kaizhou District, Chongqing, China 重庆市开州区赵家街道浦里工业新区 1-4 号楼
Manufacturer of packaging container/包装容器生产单位..... :	ChongQing Xin Tonglian Packing Materilas Co.,Ltd 重庆新通联包装材料有限公司
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Standard/检测标准..... :	ST/SG/AC.10/1/Rev.23/Chapter 6.1/ Clause 6.1.5.6
Testing type/试验类型..... :	Entrusted Test/委托试验
Receiving date/接样日期..... :	2025-03-04
Test date/检测起讫日期..... :	2025-03-12~2025-03-14

Report No.: CQZJ20250304DM01

**Product General Information/产品基本信息:**

Sample name /样品名称.....: Rechargeable Li-ion Cell  
 可充电锂离子电芯  
 Model/型号.....: P11  
 Ratings/额定参数.....: 3.7V, 45mAh, 0.166Wh  
 Trade mark/商标.....: N/A  
 Appearance/样品外观.....: Approximate Silver Cuboid  
 银色近长方体  
 Dimension/尺寸.....: 3.21mm(T) × 10.2mm(W) × 19.4mm(H)  
 Mass/质量.....: Approx./约 1.2g  
 Lithium content/锂含量.....: N/A  
 Classification/类别.....: Lithium ion cell  
 锂离子电芯

**Test items /检测项目:**

Clause 条款号	Name of test 检测项目名称	Sample quantity 样品数量	Ambient Conditions of Sample Preparation 样品预处理环境	Test result 检测结果
6.1.5.6	Stacking test 堆码试验	3 Packages 3 个包装件	Ambient temperature: 环境温度: 23°C±2°C Relative humidity: 相对湿度: 50%±2%	P 通过

**Test Conclusion/检测结论:**

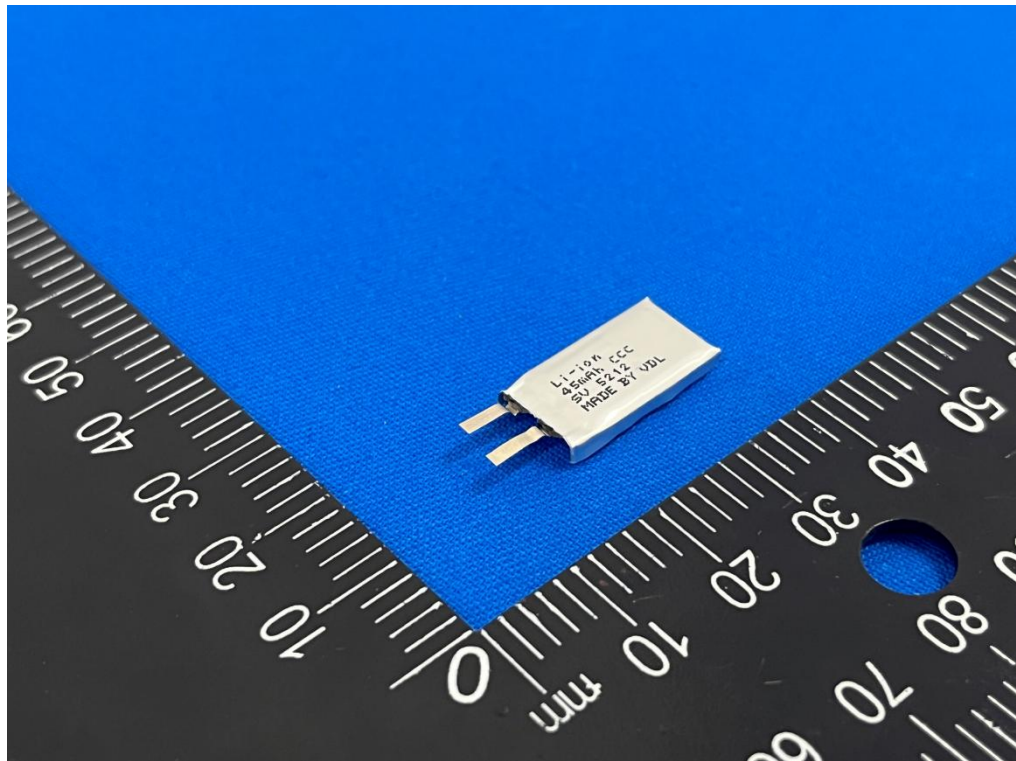
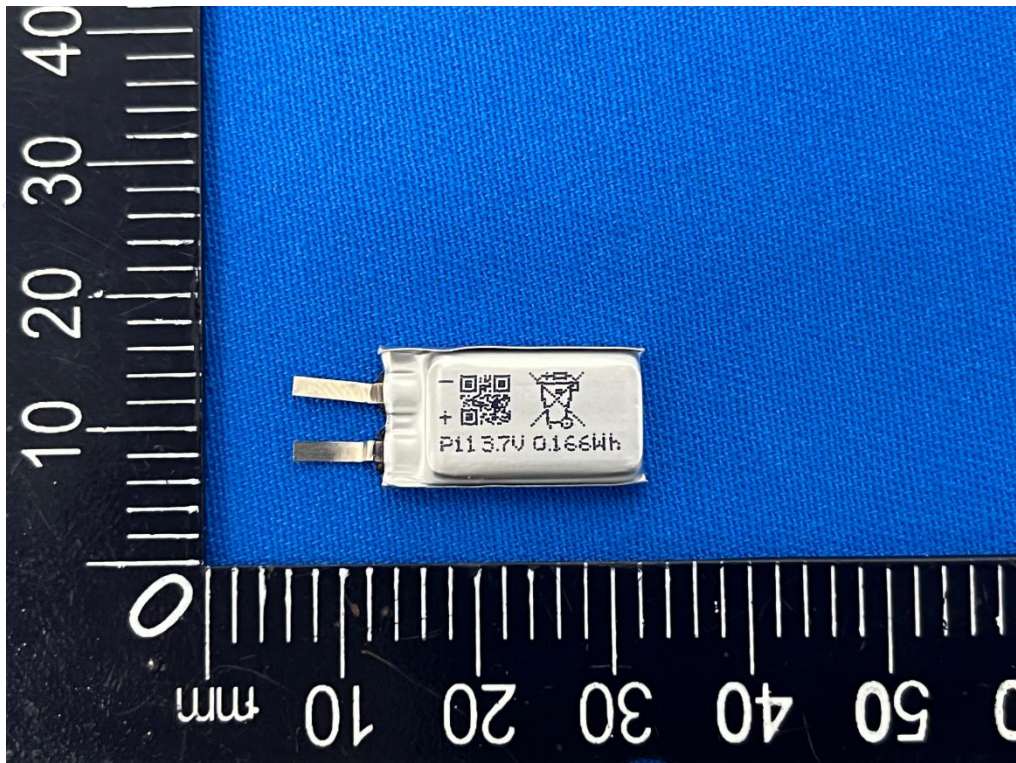
The package has passed the stacking test of UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations" Twenty-third revised edition(ST/SG/AC.10/1/Rev.23), Chapter 6.1, Clause 6.1.5.6.

经检测, 该包装件通过了联合国《关于危险货物运输建议书 规章范本》第 23 修订版(ST/SG/AC.10/1/Rev.23), 第 6.1 章, 6.1.5.6 条款的堆码试验要求。

<b>Stacking test</b> 堆码试验			<b>P</b>	
1.1	Test procedure/检测程序			
	<p>1. 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; The minimum height of the stack including the test sample shall be 3 meters. The duration of the test shall be 24 hours./ 1.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；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。</p> <p>2. Criterion for passing the test: no test sample may leak. 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./2.通过试验的标准：试验样品不得泄漏。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。</p>			
1.2	Calculation formula of stacking load /堆码载荷计算公式			
	$P = \left( \frac{H - h}{h} \right) \times m$			
1.3	Package information/包装件信息			
	P-Load loaded(Kg) P-加载的负荷	64.9	m-Gross mass of single package m-单个包装件毛重(Kg)	5.9
	Stacking height(m) H-堆码高度	3.06	m-Net mass of batteries or cells of single package (Kg) m-单个包装件内含电池或电芯净重	2.88
	Size of single package(m) 单个包装件尺寸	0.325 (L)x0.230 (W) x 0.255(h)	Quantity of batteries or cells of single package (pcs) 单个包装件内含电池或电芯数量	2400
	Packaging material 包装材质	Corrugated paper 瓦楞纸	Gasket information 衬垫信息	Pearl cotton, Plastic bag and Plastic pallet 珍珠棉，塑料袋和塑料托盘
1.4	Results/检测结果			
	Package No.包装件编号：P1#	No leak, No deterioration, No reduce its strength, No cause instability in stacks of packages. 包装件无泄漏、无损坏、无降低强度、无造成包装件堆码不稳定的变形。	P	
	Package No.包装件编号：P2#	No leak, No deterioration, No reduce its strength, No cause instability in stacks of packages. 包装件无泄漏、无损坏、无降低强度、无造成包装件堆码不稳定的变形。	P	
	Package No.包装件编号：P3#	No leak, No deterioration, No reduce its strength, No cause instability in stacks of packages. 包装件无泄漏、无损坏、无降低强度、无造成包装件堆码不稳定的变形。	P	



Photos of sample/样品照片



## 注意事项 Notice

1. 本报告无检测单位检测章无效。

The test report is invalid without the testing stamp of Guangzhou CPUP Certification Technology Service Co., Ltd..

2. 未经本实验室书面同意，不得部分复制本报告。

Nobody is allowed to partly photocopy this test report without written permission of Guangzhou CPUP Certification Technology Service Co., Ltd..

3. 本报告无批准人、审核人及检测人签名无效。

The test report is invalid without the signatures of Approver, Checker and Tester.

4. 本报告涂改无效。

The test report is invalid if altered.

5. 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 Guangzhou CPUP Certification Technology Service Co., Ltd. Within 15 days.

6. 本报告仅对被测样品负责。

The test report is responsible for the tested samples only.

7. 检测结论中“N/A”表示“不适用”，“P”表示“通过”，“F”表示“不通过”。

As for the test conclusion, “N/A” means “not applicable”, “P” means “pass” and “F” means “fail”.

8. 申请商提供的资料，若因存在真实性问题而影响检测结果的有效性，本实验室不承担任何相关责任。

The information provided by the applicant. Our lab shall not take any responsibility if the information is fake and exaggerated, which may influence the validity of the testing result.

9. 检测数据和结果不具备社会证明性作用。

The test data and results do not have social proof function.

===END OF TEST REPORT===

===报告结束===