



中国认可  
国际互认  
检测  
TESTING  
CNAS L6957

报告编号 (Report No.) : S-23040244A0

# 检测报告

## TEST REPORT

NAME OF SAMPLE: Rechargeable Li-ion Cell

产品名称: 可充电锂离子电芯

CLIENT: Chongqing VDL Electronics Co., Ltd.

委托单位: 重庆市紫建电子股份有限公司

CLASSIFICATION OF TEST: Package drop test

检测类别: 包装跌落测试

普瑞赛思

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



# 深圳普瑞赛思检测技术有限公司

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Applicant information 申请资料	
Commission by: 委托单位:	Chongqing VDL Electronics Co., Ltd. 重庆市紫建电子股份有限公司
Commissioner address: 委托单位地址:	Building 1-4, Puli Industrial New Area, Zhaojia Street, Kaizhou District, Chongqing, P.R. China 重庆市开州区赵家街道浦里工业新区1-4号楼
Manufacture: 生产单位:	Chongqing VDL Electronics Co., Ltd. 重庆市紫建电子股份有限公司
Manufacture address: 生产单位地址:	Building 1-4, Puli Industrial New Area, Zhaojia Street, Kaizhou District, Chongqing, P.R. China 重庆市开州区赵家街道浦里工业新区1-4号楼
Name of goods: 样品名称:	Rechargeable Li-ion Cell 可充电锂离子电芯
Type/Model: 样品型号规格:	P11 3.7V 45mAh 0.166Wh
Receiving date: 接样日期:	2023-04-02
Testing date: 测试日期:	2023-04-03
Completing date: 完成日期:	2023-04-03
Tested according to: 测试标准:	ST/SG/AC.10/1/Rev.22
<b>Conclusion/结论:</b>  The 1.2m drop test of the packages for the sample is tested according to the 22nd Revised Edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations (ST/SG/AC 10/1/Rev.22) 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22修订版进行检测。 The test results comply with the relevant requirements of ST/SG/AC.10/1/Rev.22. 试验结果符合《关于危险品货物运输的建议书》规章范本第22修订版相关要求。  Seal/报告专用章: Date of issue: 2023-04-04	

Prepared by:  
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Approved by:  
报告批准: 郭宏伟



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## Description and illustration

样品描述及说明

### The information of package

包装件信息

Package No.	1#
包装件编号	
Package quantity	5.900kg
包装件重量	
Battery net weight	2.820kg
电池净重	
Battery number	2400pcs
电池个数	
Package size	325mm*230mm*255mm
包装件尺寸	

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



测试后

After test





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## Annex 1: Test procedure and result

ST/SG/AC.10/1/Rev.22

Clause 章节	Requirements 标准要求	Test Result 测试结果	Conclusion 结论
6.1.5.3	<p><b>1.2米跌落测试 / 1.2m Drop test</b></p> <p><b>测试步骤 / Test procedure</b></p> <p>电池包装件从1.2 米跌落/ The package of batteries is dropped from 1.2m</p> <p><b>跌落方向 / Drop orientation:</b> 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</p> <p><b>跌落目标 / Drop Target:</b> 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 /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 .</p>	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	<b>要求 / Requirements</b>		
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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