



中国认可  
国际互认  
检测  
TESTING  
CNAS L0095

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No.: GJW2025-1400

# 检测报告

TEST REPORT

## 3 米堆码试验 3m Stacking test

NAME OF SAMPLE:

Package for Lithium / Manganese Dioxide Cell

产品名称:

鋰錳扣式電池的包裝件

CLIENT:

SHUN WO NEW POWER BATTERY  
TECHNOLOGY LTD.

委托单位:

信湖新能源電池科技有限公司

CLASSIFICATION OF TEST:

Commission Test

检测类别:

委托测试

威凯检测技术有限公司  
CVC Testing Technology Co., Ltd.

检验检测专用章

# 检测报告

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of samples: Package for Lithium / Manganese Dioxide Cell<br>样品名称: 鋰錳扣式電池的包裝件                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Battery type/Model:<br>電池型号规格: CR2032HF-90-2/ CR2032CL-35-1/<br>CR2032CL-62/ CR2032CL-23B/ CR2032-55-2/<br>CR2032HF-90-4<br>3,0V 220mAh                    |
| Commissioned by: SHUN WO NEW POWER BATTERY TECHNOLOGY LTD.<br>委托单位: 信湖新能源電池科技有限公司                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Commissioner address: Room 926, 9/F, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, HK.<br>委托单位地址: 香港九龍灣臨樂街 19 號南豐商業中心 9 樓 926 室              |
| Manufacturer: SHUN WO TECHNOLOGY (HUIZHOU) CO., LTD.<br>制造商: 信湖科技(惠州)有限公司                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer address: 2/F, FACTORY BUILDING II, SHIWEI VILLAGE, HUIYANG ECONOMIC DEVELOPMENT ZONE, HUIZHOU CITY, CHINA.<br>制造商地址: 中国惠州市惠阳经济开发区拾围村地段(厂房二)二楼 |
| Classification of test: Commission Test<br>检测类别: 委托测试                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quantity of sample: 3 packages<br>样品数量: 3 个包装件                                                                                                             |
| Tested according to:<br>测试标准: ST/SG/AC.10/1/Rev.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sample identification:<br>样品标识序号: p1#~p3#                                                                                                                  |
| Receiving date:<br>接样日期: 2025-03-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Means of receiving: Submitted by commissioner<br>接样方式: 委托单位送样                                                                                              |
| Completing date:<br>完成日期: 2025-03-18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test item: 1 item<br>测试项目: 1 项                                                                                                                             |
| Test conclusion:<br>检测结论:<br><p>The 3m stacking test of the packages for Lithium / Manganese Dioxide Cell is submitted by SHUN WO NEW POWER BATTERY TECHNOLOGY LTD. is tested according to the 23rd Revised Edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations (ST/SG/AC.10/1/Rev.23).</p> <p>由信湖新能源電池科技有限公司送检的鋰錳扣式電池的包裝件 3 米堆码试验依据《关于危险货物运输的建议书 规章范本》第 23 修订版进行检测。</p> <p>The test results comply with the relevant requirements of ST/SG/AC.10/1/Rev.23.</p> <p>试验结果符合《关于危险货物运输的建议书 规章范本》第 23 修订版相关要求。</p> <div style="text-align: center;"><p>Date of issue:<br/>签发日期: 2025-03-25</p></div> |                                                                                                                                                            |

Title: Manager  
批准人职务: 经理

Approved by: Zhang Siyao

Reviewed by: Zheng Feida

Tested by: Deng Junzhao

批 准: Zhang Siyao

审 核: Zheng Feida

检 测: Deng Junzhao

Description and illustration of the sample:

样品说明及描述:

## The info of package

包装件信息

|                            |                      |
|----------------------------|----------------------|
| Package No.<br>包装件编号       | p1#~p3#              |
| Package weight<br>包装件重量    | 2,5kg                |
| Battery net weight<br>电池净重 | 1,13kg               |
| Battery Number<br>电池个数     | 300pcs               |
| Package size<br>包装件尺寸      | 300mm * 142mm *235mm |

外包装材料

the material of outer packaging

☒ Corrugated carton 硬板纸箱 ☐ wood carton 木板箱☐ 其他 other:

能完全装入样品的内包装方式

the manner of inner packaging that can be completely enclose the samples

☐ 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☐ 单一封口塑料袋 Single sealing plastic bags☐ 塑料气垫 Plastic air cushion ☐ 独立小包装 Independent packaging☐ 其他 other:

Description of the sampling procedure:

取样程序的说明:

/

Description of the deviation from the standard, if any:

测试结果不符合标准项的说明:

/

Remarks:

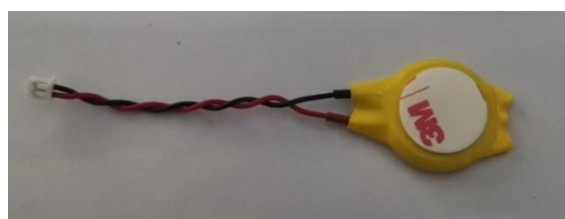
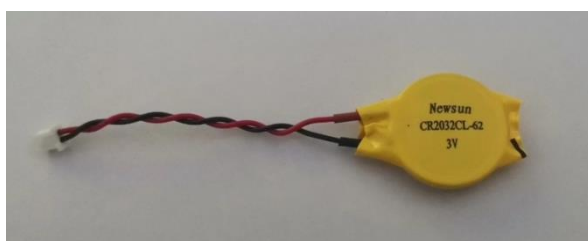
备注:

Throughout this report a comma is used as the decimal separator.

本报告中以逗号代替小数点。

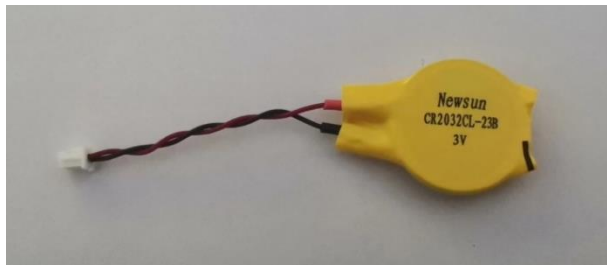
## Photos of Samples and Labels/样品照片及标识

Single Cell Battery /单电芯电池 (CR2032HF-90-2/ CR2032CL-35-1/  
CR2032CL-62/ CR2032CL-23B/ CR2032-55-2/ CR2032HF-90-4  
3,0V 220mAh)



## Photos of Samples and Labels/样品照片及标识

Single Cell Battery /单电芯电池 (CR2032HF-90-2/ CR2032CL-35-1/  
CR2032CL-62/ CR2032CL-23B/ CR2032-55-2/ CR2032HF-90-4  
3,0V 220mAh)



Photos of Packages / 包装照片

Package/包装件



| ST/SG/AC.10/1/Rev.23 |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                                                                                                                                                           |               |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Clause<br>章节         | Requirements<br>标准要求                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   | Result<br>测试结果                                                                                                                                                            | Verdict<br>判定 |
| 6.1.5.6              | Stacking test / 堆码试验                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                                                                                                                                                           | P             |
| 6.1.5.6.2            | Test method / 试验方法                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                                                                                                                                                           | -             |
|                      | <div>1) 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.<br/><br/>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。</div> <div>2) The duration of the test shall be 24 hours.<br/><br/>试验时间为 24 小时。</div>  |                   | <div>Stacking<br/>height: 3m<br/>堆码高度：3 米</div> <div>Applied force<br/>F=294N<br/>施加的力<br/>F=294N</div>                                                                   | -             |
| 6.1.5.6.3            | Requirements/要求                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                                                                                                                                                           | P             |
|                      | 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.<br>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。 | Sample No.<br>样品号 | p1#~p3#                                                                                                                                                                   | P             |
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Status<br>堆码后状态   | No leakage of sample. No release of contents from the package. No breakage of the package and no significant deformation of the package.<br>样品无泄漏。无内容物从包装漏出。包装无破损，没有明显变形。 |               |

## 注 意 事 项

### Important

1. 报告无检测单位印章无效。  
The test report is invalid without the official seal of CVC.
2. 未经本试验室书面同意，不得部分地复制本报告。  
Nobody is allowed to photocopy or partly photocopy this test report without written permission of CVC.
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 Ratifier, Reviewer and Testing engineer.
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 CVC within 15 days,
6. 本报告仅对送检样品负责。  
The test report is valid for the tested samples only.
7. 申请人提供的样品须与实际运输货物一致。  
The goods applied for shipment must be in conformity with the tested samples.
8. 判定栏中“-”表示“不需要判定”，“P”表示“通过”，“F”表示“不通过”，“N/A”表示“不适用”。  
As for the Verdict, “-” means “no need for judgement”, “P” means “pass”, “F” means “fail” and “N/A” means “not applicable”.

*\*\*报告中未加 CMA 标志时，检测数据和结果仅供科研、教学或内部质量控制之用。\*\**  
*The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.*

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Lab Address: No.3, Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, China.

Testing Location: Building D, BASIGO INTELLIGENT, No.179, Guangpu East Road, Huangpu District, Guangzhou, P. R. China.

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