



中国认可  
国际互认  
检测  
**TESTING**  
**CNAS L0095**

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No.: RZUN2023-2993

# 检测报告

## TEST REPORT

**UN38.3**

NAME OF SAMPLE:

Rechargeable Li-ion Battery System

产品名称:

磷酸铁锂电池系统

CLIENT:

Sunwoda Energy Technology Co., Ltd.

委托单位:

深圳市欣旺达能源科技有限公司

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.**

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Name of samples: Rechargeable Li-ion Battery System 样品名称: 磷酸铁锂电池系统	Type/Model: 型号规格: CIESS 60 614,4V 100Ah 60kWh
Color: White 样品颜色: 白色	Physical shape: Prismatic shape 样品形状: 棱柱形
Commissioned by: Sunwoda Energy Technology Co., Ltd. 委托单位: 深圳市欣旺达能源科技有限公司	Commissioner address: Room 201, Building C, Sunwoda electronic Factory, Tangjia Community, Fenghuang Street, Guangming District, Shenzhen City, Guangdong Province, China 委托单位地址: 中国广东深圳市光明区凤凰街道塘家社区欣旺达电子厂C栋厂房201整层
Manufacturer: Sunwoda Energy Technology Co., Ltd. 制造商: 深圳市欣旺达能源科技有限公司	Manufacturer address: Room 201, Building C, Sunwoda electronic Factory, Tangjia Community, Fenghuang Street, Guangming District, Shenzhen City, Guangdong Province, China 制造商地址: 中国广东深圳市光明区凤凰街道塘家社区欣旺达电子厂C栋厂房201整层
Factory: Huizhou Sunwoda Energy Technology Co., Ltd. 生产厂: 惠州市欣旺达能源科技有限公司	Factory address: Zhenghao Industrial Park, Zhenxing street, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China 生产厂地址: 中国广东省惠州市博罗县园洲镇沥西经济联合社振兴大道“基围笃”(土名)地段
Classification of test: Commission Test 检测类别: 委托测试	Quantity of sample: 1 Battery assembly 样品数量: 1个集成电池组
Tested according to: 测试标准: ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3	Sample identification: 样品标识序号: S1#
Receiving date: 接样日期: 2023-05-31	Means of receiving: Submitted by commissioner 接样方式: 委托单位送样
Completing date: 完成日期: 2023-06-15	Test item: - 测试项目: -
Test conclusion: 检测结论: <p>The Rechargeable Li-ion Battery System submitted by Sunwoda Energy Technology Co., Ltd. complies with the requirements of Section 38.3 of the seventh Revised Edition Amendment 1 of the Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria (ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3).</p> <p>由深圳市欣旺达能源科技有限公司送检的磷酸铁锂电池系统,符合《关于危险品货物运输的建议书》试验和标准手册第七修订版修正1第38.3节相关要求。</p> <p style="text-align: right;">Seal of CVC CVC 印章 Date of issue: 签发日期: 2023-06-16</p>	

Title: Manager  
批准人职务: 经理

Approved by: Huang Kun Reviewed by: Zhang Siyao Tested by: Chen Zeyan

批 准:  审 核:  检 测: 

Description and illustration of the sample/样品说明及描述:

1. The sample's status is good. / 样品状况良好;  
Sample weight/样品重量: 840kg;

2. Sample information / 样品信息

Name of samples 样品名称	Sample category 样品类别	Type/Model 型号	Specifications 规格参数	Composition 组成结构
Rechargeable Li-ion Battery System 磷酸铁锂电池系统	Battery assembly 集成电池组	CIESS 60	614,4V 100Ah 60kWh	Consists of 12 batteries / 由 12 个 电池组组成
Lithium Iron Phosphate Battery Module 磷酸铁锂电池模组	Battery 电池组	B051100S02	51,2V 5kWh	Consists of 16 inner cells / 由 16 个电芯组成
Rechargeable Lithium ion cell 锂离子电池	Inner Cell 内部电芯	SBP-01-1000	3,2V 102Ah 326,4Wh	Single cell / 单电芯

3. Item information / 项目信息

Name of samples 样品名称	Item 项目	Sample No. 样品编号	State 状态	Remark 备注
Rechargeable Li-ion Battery System 磷酸铁锂电池系统	38.3.3(g)	S1#	more than 6200Wh 超过 6200Wh	-

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:

1. Throughout this report a comma is used as the decimal separator.  
本报告中以逗号代替小数点。
2. Battery assembly (CIESS 60) is a collection of Battery (B051100S02). The sample of battery (B051100S02) has passed the testing of ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3. See the report RZUN2023-1952. According to the standard requirements, T.1~T.8 not needs to be verified for battery assembly (CIESS 60).  
集成电池组 (CIESS 60) 是电池组 (B051100S02) 的集合体。电池组样品 (B051100S02) 已通过 ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3 测试, 详情见报告 RZUN2023-1952。根据标准要求, 集成电池组 (CIESS 60) 无需进行 T.1~T.8 测试;

## 样品照片

## Photos of Samples

Battery assembly / 集成电池组  
(CIESS 60 614,4V 100Ah 60kWh)

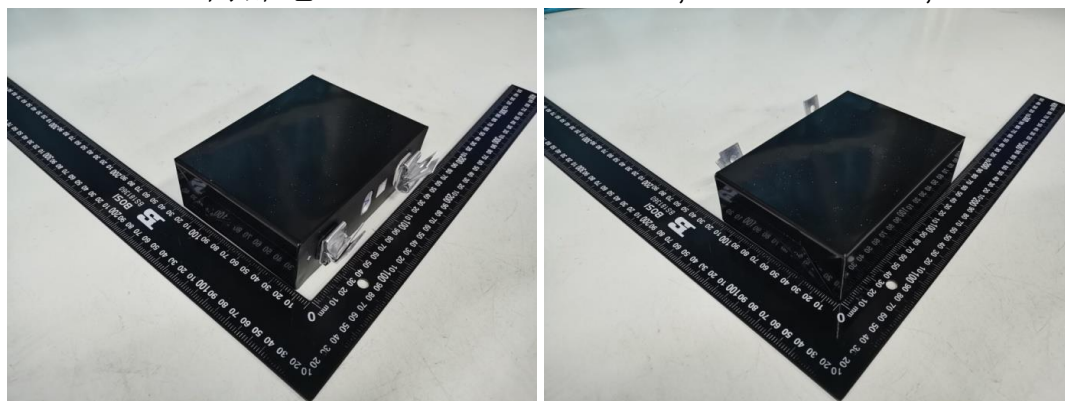


## Photos of Samples and Labels/样品照片及标识

Battery/电池组 (B051100S02 51,2V 5kWh)



Inner Cell/内部电芯 (SBP-01-1000 3,2V 100Ah 326,4Wh)



ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3			
Clause 章节	Requirements 标准要求	Result 结果	Verdict 判定
38.3.3(g)	<p>Requirements/标准要求</p> <p>When batteries that have passed all applicable tests are electrically connected to form a battery in which the aggregate lithium content of all anodes, when fully charged, is more than 500g, or in the case of a lithium ion battery, with a Watt-hour rating of more than 6200Wh, the assembled battery does not need to be tested if the assembled battery is of a type that has been verified as preventing:</p> <p>(i) Overcharge; (ii) Short circuits; and (iii) Over discharge between the batteries.</p> <p>/对于已通过所有适用试验的若干电池组以电路连接而成的集成电池组，如在完全充电时所有正极的合计锂含量大于 500 克，或在锂离子电池组的情况下，如额定的瓦时数超过 6200 瓦时，该集成电池组如经过验证属于可防止下列状况，即无需进行试验（T.1~T.8 测试项）：</p> <p>(一) 过度充电； (二) 短路；以及 (三) 电池组之间过度放电。</p>	<p>The watt-hour rating of battery assembly (CIESS 60) is 60kWh (more than 6200Wh);</p> <p>该集成电池组（CIESS 60）的额定瓦时为 60kWh（超过 6200Wh）；</p> <p>The battery assembly (CIESS 60) is equipped with a system capable of monitoring the battery assembly , preventing overcharge and preventing short circuits, and preventing over discharge between the batteries in the assembly, the test report WTS2023-12310 issued by CVC Testing Technology Co., Ltd.;</p> <p>该集成电池组（CIESS 60）装有管理系统，具有能够监测电池组件，防止过度充电、防止短路，以及防止电池组件内各电池组之间过度放电的功能，详情见由威凯检测技术有限公司出具的报告 WTS2023-12310；</p>	P



## 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 stamp 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. 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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