



中国认可  
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检测  
TESTING  
CNAS L13753



# 1.2m 测试报告

# 1.2m Test Report

报告编号 Report No.: S03A23040527D00601

样品名称: 锂离子电池组  
Sample Name: Li-ion Battery Pack

样品型号: NL2153HPi  
Sample Model:

委托单位: 广州希脉创新科技有限公司  
Applicant: SYSMAX Innovations Co., Ltd

签发日期: 2023-05-23  
Issue Date:

广东储能检测技术有限公司

报告专用章  
Special Seal for Report

Guangdong ESTL Technology Co., Ltd.

样品名称 Sample Name	锂离子电池组 Li-ion Battery Pack	样品型号 Sample Model	NL2153HPi
标称电压 Nominal Voltage	3.6V	额定容量 Rated Capacity	5300mAh
瓦时 Watt-hour	19.08Wh	商标 Trade mark	--
测试实验室 Testing laboratory	广东储能检测技术有限公司 Guangdong ESTL Technology Co., Ltd.		
实验室地址 Laboratory address	广东省东莞市松山湖园区总部二路9号1栋1单元101、201-208室。 Room 101, 201-208, Unit 1, Building 1, No. 9 Headquarters 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China.		
测试地点 Testing location	<input type="checkbox"/> 广东省东莞市松山湖园区总部二路9号1栋1单元101、201-208室 Room 101, 201-208, Unit 1, Building 1, No. 9 Headquarters 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China. <input checked="" type="checkbox"/> 广东省东莞市松山湖园区总部二路11号1栋2单元101室 Room 101, Unit 2, Building 1, No. 11 Headquarters 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China.		
委托单位 Applicant	广州希脉创新科技有限公司 SYSMAX Innovations Co., Ltd		
委托单位地址 Applicant Address	广东省广州市天河区高普路1021号5楼6355号 Unit 6355, 5/F, No.1021 Gaopu Road, Tianhe District, Guangzhou, 510653, Guangdong, China		
制造商 Manufacturer	惠州美安时能源科技有限公司 Huizhou Meinovo Electronic Co., Ltd.		
制造商地址 Manufacturer Address	惠州市博罗县园洲镇李屋村工业区 Liwu Village Industrial Zone, Yuanzhou Town, Boluo, County, Huizhou City, Guangdong Province, China		
测试标准 Standard	联合国《关于危险货物运输的建议书 规章范本》第22修订版3.3章188条款 UNITED NATIONS Recommendations on the transport of dangerous goods Model Regulations, Twenty-second revised edition, Chapter 3.3, Provisions 188		
接样日期 Date of sample receipt	2023-05-04		
测试日期 Tested date	2023-05-04 to 2023-05-19		
检验结论 Test conclusion:	<p>由惠州美安时能源科技有限公司送检的锂离子电池组的包装件1.2m 跌落测试依据联合国《关于危险货物运输的建议书 规章范本》第22修订版3.3章188条款。测试结果符合标准相关要求。</p> <p>The 1.2m drop test of the PACKAGE for Li-ion Battery Pack submitted by Huizhou Meinovo Electronic Co., Ltd. is tested according to the UNITED NATIONS Recommendations on the transport of dangerous goods Model Regulations, Twenty-second revised edition, Chapter 3.3, Provisions 188. The test results comply with the relevant requirements of the standard.</p>		

检测 Tested by

陈保霖

审核 Reviewed by

胡丽珍

批准 Approved by

批准



包装件信息 The info of package	
每个包装件毛重 Each package gross weight	8.89kg
每个包装件中电池净重 In each package battery net	6.76kg
电池个数 Battery Number	90个/箱 90pcs/packing
包装件尺寸 Package size	385mm*165mm*460mm
包装方式 Packaging type	包装箱内含锂电池 Package including lithium batteries.
外包装材料 The material of outer packaging	<input checked="" type="checkbox"/> 硬板纸箱Corrugated carton <input type="checkbox"/> 木板箱Wood carton <input type="checkbox"/> 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	<input type="checkbox"/> 泡沫材料Foam material <input type="checkbox"/> 吸塑盘Plastic disc <input type="checkbox"/> 纸板隔板Paper divider <input type="checkbox"/> 塑料气垫Plastic air cushion <input type="checkbox"/> 单一封口塑料袋 <input type="checkbox"/> 塑料气泡与珍珠棉 Single sealing plastic bags Plastic bubble and pearl cotton <input checked="" type="checkbox"/> 独立小包装 <input type="checkbox"/> 其他Other: Independent packaging
备注/Remarks: 1. 本报告中以点代替小数点。 Throughout this report a point is used as the decimal separator. 2. 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”.	

章节 Clause	标准要求 Requirements	测试结果 Result	判定 Verdict
6.1.5.3	<b>1.2 米跌落测试 / 1.2m Drop test</b>		P
	<b>测试步骤 / Test procedure</b>		P
	电池包装件从1.2 米跌落 / The package of batteries is dropped from 1.2m		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: 以一长侧面平跌 / Third drop: flat on the long side 第四次: 以一短侧面平跌 / Fourth drop: flat on the short side 第五次: 以一个角跌落 / Fifth drop: on a corner	此包装为箱状, 并经受五个方向的跌落。 The package is in the shape of a box. The package is subjected to five drops in different orientation.	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: 1. 足够完整、厚重以固定不动 / Integral and massive enough to be immovable 2. 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 3. 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坏 / Rigid enough to be non-deformable under test conditions and not liable to become damaged by the tests 4. 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 fall securely upon the surface	跌落目标为水泥地面。 The drop target is a concrete floor.	P	
3.3.1	<b>要求 / Requirements</b>		P
Special provision 188	除了当电池是安装在产品中的时候, 每个包件必须能承受任何方向1.2m 的跌落试验包含其中没有损坏电池或电池组, 没有内容物位移以致电池组和电池组 (或电池和电池) 接触, 没有释放出内容物 Except when batteries are installed in equipment, each package shall be capable of withstanding a 1.2m 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	电池无损坏; 无电池与电池接触; 无内容物从包装漏出。 No damage to batteries; No battery to battery contact; No release of contents from the package.	P

Photos of Samples and Labels/样品照片及标识

包装件Package:



电池 Battery:



--- 报告结束 ---  
--- End of Report ---

## 声明 Declaration

1. 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.

2. 对检验报告若有异议，应于收到报告之日起十五日内向检验单位提出。

Objections to the test report must be submitted to ESTL within 15 days.

3. 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 ESTL.

4. 客户必须如实提供样品及资料，并保证申报品名和样品以及运输货物相同，否则本检测单位不承担任何相关责任。

The client should provide samples and relevant data, at the same time, they should guarantee the consistence of the product's name the declared, the samples they provided and the goods to be transported. Otherwise we will not bear any relevant responsibilities.

5. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

6. 任何情况下检测单位的赔偿责任都不会超过检测单位就本次检测所收取的检测费用。

ESTL's liability under no circumstance will exceed the testing fee received from applicant for test conducted hereof this testing report.

7. 本报告涂改无效。

The test report is invalid if altered.

8. 本报告无本公司“检测报告专用章”或“公章”无效。

This report is invalid without the company's "Special seal for Test Report" or "official seal".

9. 本报告未加盖CMA资质认定标志，不具有社会证明作用，本公司不承担因此引发的任何风险和法律责任。

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