



中国认可
国际互认
检测
TESTING
CNAS L5138

堆码试验报告 Stacking test Report

样品名称:

锂离子电芯

Sample name:

Lithium ion cell

样品型号:

18650D

Sample model:

委托单位:
广东盛利高新能源科技有限公司

Applicant:
Guangdong Shengli High-tech Energy
Technology Co. LTD

深圳天溯计量检测股份有限公司

Shenzhen Tiansu Calibration and Testing Co., Ltd.



委托单位 Applicant	名称 Name	广东盛利高新能源科技有限公司 Guangdong Shengli High-tech Energy Technology Co. LTD
	地址 Address	广东省东莞市常平镇港建路 39 号 3 栋 102 室 Room 102, Building 3, No. 39, Gangjian Road, Changping Town, Dongguan city, Guangdong Province
包装件 制造单位 Manufacturer	名称 Name	广东盛利高新能源科技有限公司 Guangdong Shengli High-tech Energy Technology Co. LTD
	地址 Address	广东省东莞市常平镇港建路 39 号 3 栋 102 室 Room 102, Building 3, No. 39, Gangjian Road, Changping Town, Dongguan city, Guangdong Province
包装容器 制造商 Manufacturer of packing containers	名称 Name	东莞市和裕包装材料有限公司 Dongguan Heyu Packing Material Co., LTD
	地址 Address	东莞市厚街镇三屯厚道路东 1 号 No. 1, East Santunhou Road, Houjie Town, Dongguan City
测试实验室 Testing laboratory	名称 Name	深圳天溯计量检测股份有限公司 Shenzhen Tiansu Calibration and Testing Co., Ltd.
	地址 Address	广东省深圳市龙岗区锦龙大道 2 号 No. 2, Jinlong Avenue, Longgang District, Shenzhen, Guangdong, China
测试标准 Test Standard	联合国《关于危险货物运输的建议书》规章范本 UN/ST/SG/AC.10/1/Rev.23/6.1.5.6 条款. Test standard: 23rd Revised Edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations (ST/SG/AC.10/1/Rev.23) Clause 6.1.5.6.	
测试日期 Test date	2023.11.14 to 2023.11.17	
Test conclusion: 检测结论: 由 广东盛利高新能源科技有限公司送检的锂离子电芯 的包装件堆码测试依据《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。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。 The Stacking test of the packages for Lithium ion cell submitted by Guangdong Shengli High-tech Energy Technology Co. 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).		
签发日期 Date of issue: 2023.11.17		

主 检
Tested by

陈杰明

审 核
Reviewed by

张杨

批 准
Approved by

段江清



一、基本信息 Basic information

包装件信息 Information about the package	外包装材料 Outer packing materials	瓦楞纸 Corrugated paper	内包装材料 Inside packing materials	塑料 Plastic
	封闭装置 Closures	胶封	最大容量 Maximum capacity	400 PCS
	包装件尺寸 Packaging dimensions	L*W*T(372mm*205mm*172mm)	包装件重量 Packaging weight	19.123kg
	制造方法 method of manufacture	/	每包装件电池净重 Net quantity of batteries per package	18.56kg
内部电池信息 Information about the battery inside	样品名称 Sample name	锂离子电芯 Lithium ion cell	样品型号 Sample model	18650D
	标称电压 Nominal voltage	3.7V	额定能量 Ratings energy	11.1Wh
	尺寸 Dimension	Φ18.50*65.50(mm)	重量 Weight	46.4g

二、堆码测试 Stacking test

No. 序号	Test item 试验项目	Test method 试验依据	Result 结果	Remark 备注
1	堆码测试 Stacking test	联合国《关于危险货物运输的建议书》规章范本 UN/ST/SG/AC.10/1/Rev.23/6.1.5.6 条款. Test standard: 23rd Revised Edition of the Recommendations on the Transport of Dangerous Goods, Model Regulations (ST/SG/AC.10/1/Rev.23) Clause 6.1.5.6.	Pass 合格	--

测试时的温度	测试时的湿度	加载的负荷
24.5℃	49%RH	3185.9N



三、测试要求描述 Testing requirements description:

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。如果试验样品内装的液体相对密度与待运液体不同，则该力应按后者计算。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，但拟装的塑料桶、罐和复合包装 6HH1 和 6HH2，应在不低于 40°C 的温度下经受 28 天的堆码试验。

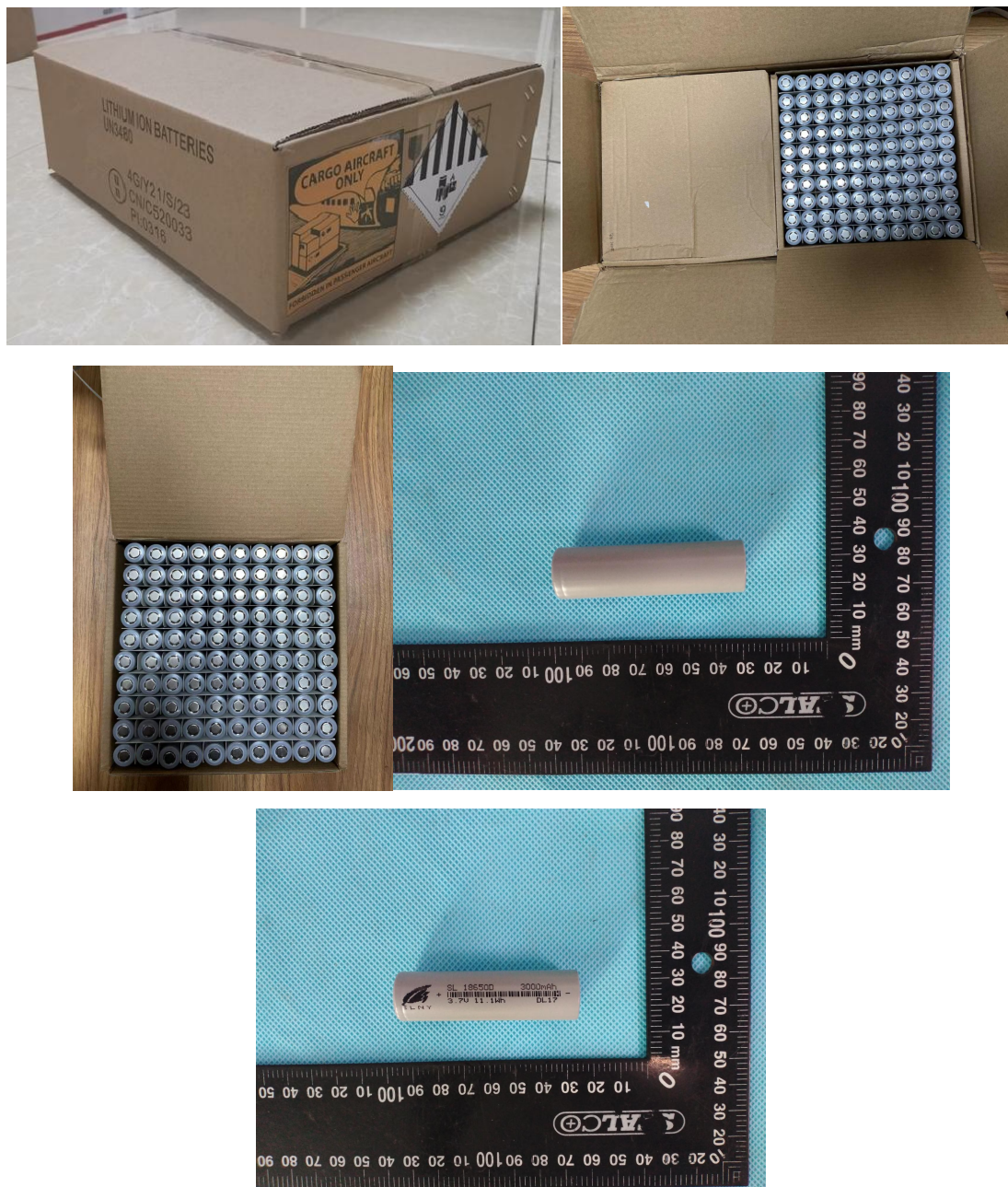
The test sample shall be subjected to a force applied to the top surface of the test sample equivalent to the total weight of identical packages which might be stacked on it during transport; Where the contents of the test sample are liquids with relative density different from that of the liquid to be transported, the force shall be calculated in relation to the latter. The minimum height of the stack including the test sample shall be 3 meters. The duration of the test shall be 24 hours except that plastics drums, jerricans, and composite packagings 6HH1 and 6HH2 intended for liquids shall be subjected to the stacking test for a period of 28 days at a temperature of not less than 40°C.

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贮器和内包装中漏出。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。在进行评估之前，塑料包装应该冷却至环境温度。

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. Plastics packagings shall be cooled to ambient temperature before the assessment.



THE PHOTO OF SAMPLE 样品图片



声 明 STATEMENTS

1. 本报告无检测单位印章无效。
The test report is invalid without the official stamp of Tiansu.
2. 除非全部复制，否则无深圳天溯计量检测股份有限公司书面批准本报告不得部分复制。
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5. 本报告仅与送检样品有关。
The test report is valid for the tested samples only.
6. 样品信息和客户信息由申请人提供，本实验室不对其真实性负责。
Product information and customer information provided by the applicant, we are not responsible for its authenticity.
7. 准备提交运输的包装已按照本章的有关要求进行试验,使用其他打包方法或部件可能使其失效。
The packaging prepared as for transport was tested in accordance with the appropriate requirements of this Chapter and that the use of other packaging methods or components may render it invalid.
8. 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 Tiansu within 15 days.

-----报告结束-----
-- End of report --

