

锂电池跌落测试报告

Lithium Battery Drop Test Report

报告编号: AGC01085220201UA01
Report No.:

产 品 名 称 : 锂离子电池包装件
PRODUCT DESIGNATION : Package for Li-ion Battery

商 标 : CUBOT
BRAND NAME

样 品 型 号 : J9
MODEL NAME

委 托 单 位 : 深圳市骅福瑞科技有限公司
APPLICANT : Shenzhen Huafurui Technology Co., Ltd.

签 发 日 期 : 2022-03-09
DATE OF ISSUE

检 测 标 准 : ST/SG/AC.10/1/Rev.21
STANDARD(S)

报 告 版 本 : V1.0
REPORT VERSION

深圳市鑫宇环检测有限公司

Attestation of Global Compliance (Shenzhen) Co., Ltd.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



1. 样品描述 Sample Description

电池描述 Battery Description			
电池名称 Sample Name	锂离子电池 Li-ion Battery	样品型号 Sample Model	J9
标称电压 Nominal Voltage	3.85V	额定容量 Rated Capacity	4200mAh
实验室 Laboratory	深圳市鑫宇环检测有限公司 Attestation of Global Compliance (Shenzhen) Co., Ltd.		
实验地址 Testing Address	深圳市宝安区福海街道和平社区重庆路骏丰工业园厂房 19 栋第一、二层 1, 2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.		
委托单位 Applicant	深圳市骅福瑞科技有限公司 Shenzhen Huafurui Technology Co., Ltd.		
委托单位地址 Applicant Address	深圳市南山区桃源街道留仙大道与塘岭路交汇处金骐智谷（崇文花园 4 号办公楼）14 楼 1401、1402 房 Unit 1401 & 1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen. Guangdong province. China		
生产单位 Manufacturer	中山天贸电池有限公司 Zhongshan Tianmao Battery Co., Ltd.		
生产单位地址 Manufacturer Address	中山市坦洲镇新前进村前进一路 208 号 No. 208, Qianjin 1st Road, Xinqianjin Village, Tanzhou Town, Zhongshan City		
包装件描述 Packaging Description			
外包装 Outer package	纸箱 Carton	内包装 Inner package	纸盒 Paper Box
包装尺寸 Dimensions	395*385*180 mm* mm* mm	衬垫材料 Cushion	泡沫棉 Foam Cotton
整箱重量 Gross weight	7.6kg	电池数量 Battery number	20 个/箱 20Pcs/packing
测试开始日期 Client date	2022-03-08	测试结束日期 Finished date	2022-03-09
包装方式 Packaging type	包装箱内含与设备打包的锂电池。 Package including lithium batteries with equipment.		
主检人 Prepared by	审核人 Checked by	批准人 Approved by	
肖旭东	叶文兵	祝志伟	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



2. 参考方法 Reference Method

(ST/SG/AC.10/1/Rev.21) 《联合国关于危险品运输建议书——规章范本》

《Recommendations On The Transport Of Dangerous Goods-Model Regulations》

3. 测试项目 Test Item

1.2 米跌落试验、包装件毛重测试

1.2m Drop test、Gross Weight Measure

4. 测试结论 Conclusion

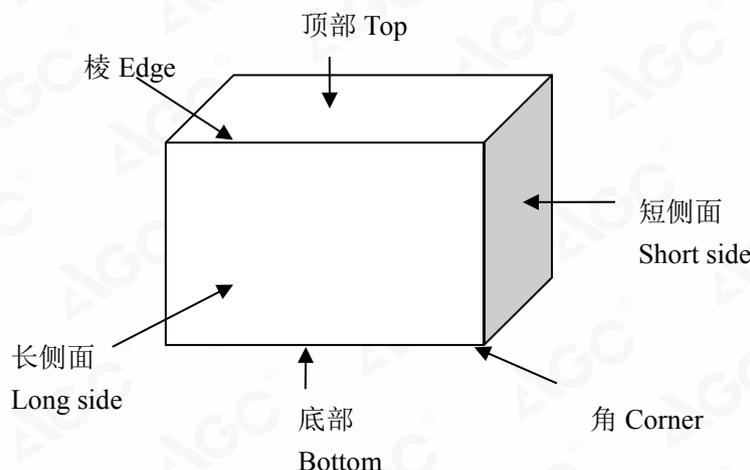
该包装件能够承受 1.2 米跌落试验，其内装的电池没有受损，没有造成内装物移动，以致电池与电池互相接触，并且没有内装物释出。该包装件总重量为：7.6kg (毛重)。

This package is 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 contact and without release of contents. The weight of the package is 7.6kg gross mass.

5. 测试方法 Test Method

每个装有电池的包装件需要做 6 次 1.2m 自由跌落，见以下示意图。

The package of batteries is dropped from 1.2m, 6 times per package. See below schematic diagram .



6. 测试设备 Test equipment

AGC-BT-E134 跌落试验机 Drop test system

AGC-SA-E114 电子天平 Electronic balance

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



7. 实验室环境条件 Test Environment Condition

温度 Ambient temperature: 20~25 (°C)

相对湿度 Ambient humidity: 50~60 (%)

8. 测试结果 Test Data

测试项目 Test Item	测试结果 Test Result	结论 Conclusion
1.2m (面、棱、点跌落) (Side\Edge\Angle)	1、包装件内的电池没有破损或泄漏 2、内装物没有移动，并且没有导致电池与电池（或电池芯与电池芯）相互接触 3、内装物没有泄漏 1,Without damage to cells or batteries contained therein; 2,Without shifting of the contents so as to allow battery to battery (or cell to cell) contact; 3,Without release of contents.	被测试包装件能够承受 1.2 米跌落试验 The test package is capable of withstanding a 1.2m drop test in any orientation.
包装件毛重测试 Gross Weight Measure	7.6kg	合格 Pass

9. 样品图片 Sample Photo

包装件 Package:



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



电池 Battery:



仅对原报告照片中的样品负责

Authenticate the photo on original report only

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: <http://cn.agc-cert.com/>





签发测试报告条款 Conditions of Issuance of Test Reports

1. 深圳市鑫宇环检测有限公司(以下简称[本公司])为提供符合下述条款的测试和报告,而接受有关样品和货品。本公司基于下述条款提供服务,下述条款为本公司与申请服务的个人,企业或公司(以下简称[客户])的协议。All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其他人出示或提交。除非相关政府部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. 除非相关政府部门、法律或法院要求,否则未经公司预先书面同意,本公司毋需也无义务到法院对有关报告作证。The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 无 CMA 标志的报告,仅供使用方内部参考,不具有对社会的证明作用。The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. 如果本公司确定报告被不当地使用,本公司保留撤回报告的权利,并有权要求其它适当的额外赔偿。In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. 本公司接受样品进行测试的前提是,该测试报告不能作为针对本公司法律行动的依据。Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. 如因使用本公司任何报告内的资料,或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害,本公司概不负责。The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. 若需要在法院审理程序或仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. 电子版报告更改后将不被追回,客户有义务将更改后的报告提供给使用原报告的相关方。The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. 该测试报告的支持数据和信息本公司保存 6 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

