



Test Report



中国认可
国际互认
检测
TESTING
CNAS L6093

Report No.: HLF22005360E

Date: May 28, 2022

Page 1 of 4

Applicant : Ningbo Lvneng Lithium battery Technology Co. LTD

Address : 220 Jiangning Road, Jiangkou Street, Fenghua City, Ningbo City, Zhejiang Province, China

The following sample(s) and sample information was/were submitted and identified by/on behalf of the client

Sample Name : Rechargeable Li-ion Battery

Sample Model : 18650-2000mAh 3.7V 2000mAh 7.4Wh
18650-4000mAh 3.7V 4000mAh 14.8Wh
18650-2200mAh 3.7V 2200mAh 8.14Wh
18650-2600mAh 3.7V 2600mAh 9.62Wh
18650-6600mAh 3.7V 6600mAh 24.42Wh
18650-8800mAh 3.7V 8800mAh 32.56Wh
18650-1200mAh 3.7V 1200mAh 4.44Wh
18650-1500mAh 3.7V 1500mAh 5.55Wh
18650-1800mAh 3.7V 1800mAh 6.66Wh
18650-3600mAh 3.7V 3600mAh 13.32Wh
18650-4400mAh 3.7V 4400mAh 16.28Wh
18650-5400mAh 3.7V 5400mAh 19.98Wh
18650-7200mAh 3.7V 7200mAh 26.64Wh

Sample Style : /

Sample Lot : /

Sample Received Date : May 25, 2022

Test Completed Date : May 28, 2022

Test Requested : As specified by client, with reference to Directive 2006/66/EC and its amended Directive 2013/56/EU to determine Lead(Pb), Cadmium(Cd), Mercury(Hg) contents in the submitted sample.

Test Method : Refer to the next page(s).

Test Results : Refer to the next page(s).

Test Conclusion : Based upon the performed tests by submitted samples, the test results comply with the limits of the Directive 2006/66/EC and its amended Directive 2013/56/EU

Reviewed by:

Lab Senior Engineer

Authorized Signature:

Technology Manager

In no circumstances shall the Company's responsibility extend beyond inspection, testing and reporting upon the samples actually drawn from the bulk and inspected, tested and surveyed by the Company and any inference to be drawn from the results of such inspection or survey or testing shall be entirely in the discretion and at the sole and exclusive responsibility of the Principal. This test report cannot be reproduced except in full.

FLION TESTING TECHNOLOGIES

Add: Gangzi Industrial Park, Furong Industrial Area, Xinqiao Village, Shajing Town, Bao'an District, Shenzhen City

Tel : 86-0755-2724 8885

Fax : 86-0755-2746 0090

Http://www.cnfft.com

Test Results:

Test Item	Test method/Instrument	MDL (%)	Result (%)	Limit (%)
Lead(Pb)	EPA3050B&EPA3052/ICP-OES	0.0002	N.D.	--
Cadmium(Cd)	EPA3050B&EPA3052/ICP-OES	0.0002	N.D.	0.002
Mercury(Hg)	EPA3050B&EPA3052/ICP-OES	0.0002	N.D.	0.0005

Note:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) N.D. = Not Detected (less than MDL)

(3) MDL = Method Detection Limit

(4) "--" = Not Regulated

(5) Remark: According to the Article 21(3) of Directive 2006/66/EC, Battery, accumulator and button cell shall include the chemical symbol Mercury when containing more than 0.0005% of Hg, the chemical symbol Cadmium when containing more than 0.002% of Cd and the chemical symbol Pb when containing more than 0.004% of Pb

Remark: The test report is only used for customer research, teaching, internal quality control, product development and other purposes, for internal reference only.

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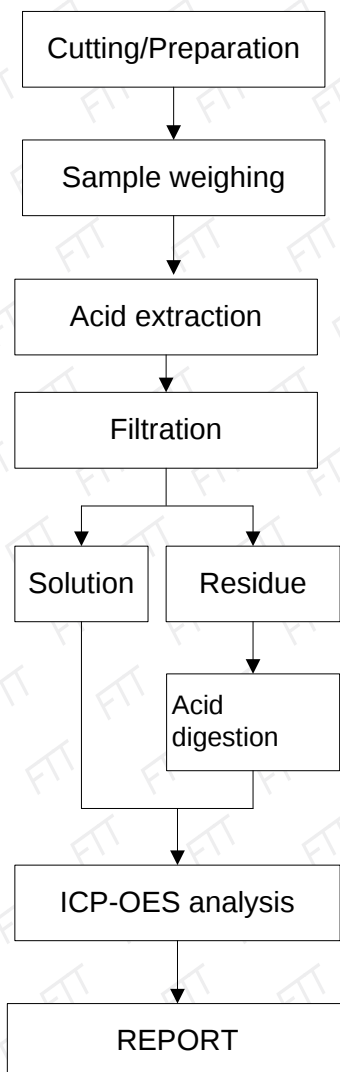
Tel : 86-0755-2724 8885

Fax : 86-0755-2746 0090

Http://www.cnfft.com



Testing Flow Chart:



In no circumstances shall the Company's responsibility extend beyond inspection, testing and reporting upon the samples actually drawn from the bulk and inspected, tested and surveyed by the Company and any inference to be drawn from the results of such inspection or survey or testing shall be entirely in the discretion and at the sole and exclusive responsibility of the Principal. This test report cannot be reproduced except in full.



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Report No.: HLF22005360E

Date: May 28, 2022

Page 4 of 4

Test Part Description: Battery

Sample Photo



Note: The results shown in this report refer only to the sample(s) tested.

***** End of Report *****

In no circumstances shall the Company's responsibility extend beyond inspection, testing and reporting upon the samples actually drawn from the bulk and inspected, tested and surveyed by the Company and any inference to be drawn from the results of such inspection or survey or testing shall be entirely in the discretion and at the sole and exclusive responsibility of the Principal. This test report cannot be reproduced except in full.



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Fax : 86-0755-2746 0090

Http://www.cnfft.com



仅限货机
CAO



NO.212200117184796



中国认可
检验
INSPECTION
CNAS IB0071

货物运输条件鉴定书

Certification
for Safe Transport of Chemical Goods

危险品

样品名称：可充电锂离子电池 18650-2000mAh 3.7V 2000mAh 7.4Wh

Sample name: Rechargeable Li-ion Battery 18650-2000mAh 3.7V 2000mAh 7.4Wh

委托单位：宁波绿能锂电池科技有限公司
Ningbo Lvneng Lithium Battery Technology Co., Ltd.

生产单位：宁波绿能锂电池科技有限公司
Ningbo Lvneng Lithium Battery Technology Co., Ltd.



Witness Better Life

SICIT 上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd



货物运输条件鉴定书

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Page 1/3

Certification for Safe Transport of Chemical Goods

样品名称 Sample Name	中文 Chinese	可充电锂离子电池 18650-2000mAh 3.7V 2000mAh 7.4Wh				
	英文 English	Rechargeable Li-ion Battery 18650-2000mAh 3.7V 2000mAh 7.4Wh				
委托单位 Consignor		宁波绿能锂电池科技有限公司 Ningbo Lyneng Lithium Battery Technology Co., Ltd.				
生产单位 Manufacturer		宁波绿能锂电池科技有限公司 Ningbo Lyneng Lithium Battery Technology Co., Ltd.				
检验方法、程序 Inspection method and procedure		国际航空运输协会《危险品规则》63版 IATA Dangerous Goods Regulations (DGR) 63rd Edition				
样品外观 Sample appearance		蓝色圆柱型塑料薄膜外壳 Blue Cylinder plastics film shell				
包装件信息 Package information		锂电池总净重≤10kg。 Lithium batteries total net weight≤10kg.				
序号 NO.	电池种类 Battery type	型号 Model	容量Capacity /锂含量Li content	放置方式 Placement	单颗重量kg Unit weight	数量 Quantity
1	可充电锂离子单电芯电池 Rechargeable Li-ion single cell battery	18650-2000mAh	2000mAh 7.4Wh	电池单独运输 Battery only	0.045	50
鉴定 结论	1. 危险性识别 (Hazards identification)					
	杂项。 Miscellaneous.					
	2. 空运按照国际航空运输协会《危险品规则》办理的类项 (Suggestion according to IATA DGR)					
	Shipping name: Lithium ion batteries Class or division: 9 UN Number: UN3480					
鉴定 结论	3. 包装要求 (Packaging requirements)					
	按包装说明965第1B部分要求办理。 The goods are packaged according to the Packaging Instruction 965 section 1B.					
	仅限货机 Cargo Aircraft Only					
	检验日期: 2022-01-07 Inspection Date: 签发日期: 2022-01-07 Issue Date: 生效日期: 2022-01-07 Effective Date:					
备注 Comment						

批准
Approver: 王军

审核
Checker: 董学胜

主检
Appraiser: 顾杨幸



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Page 2/3

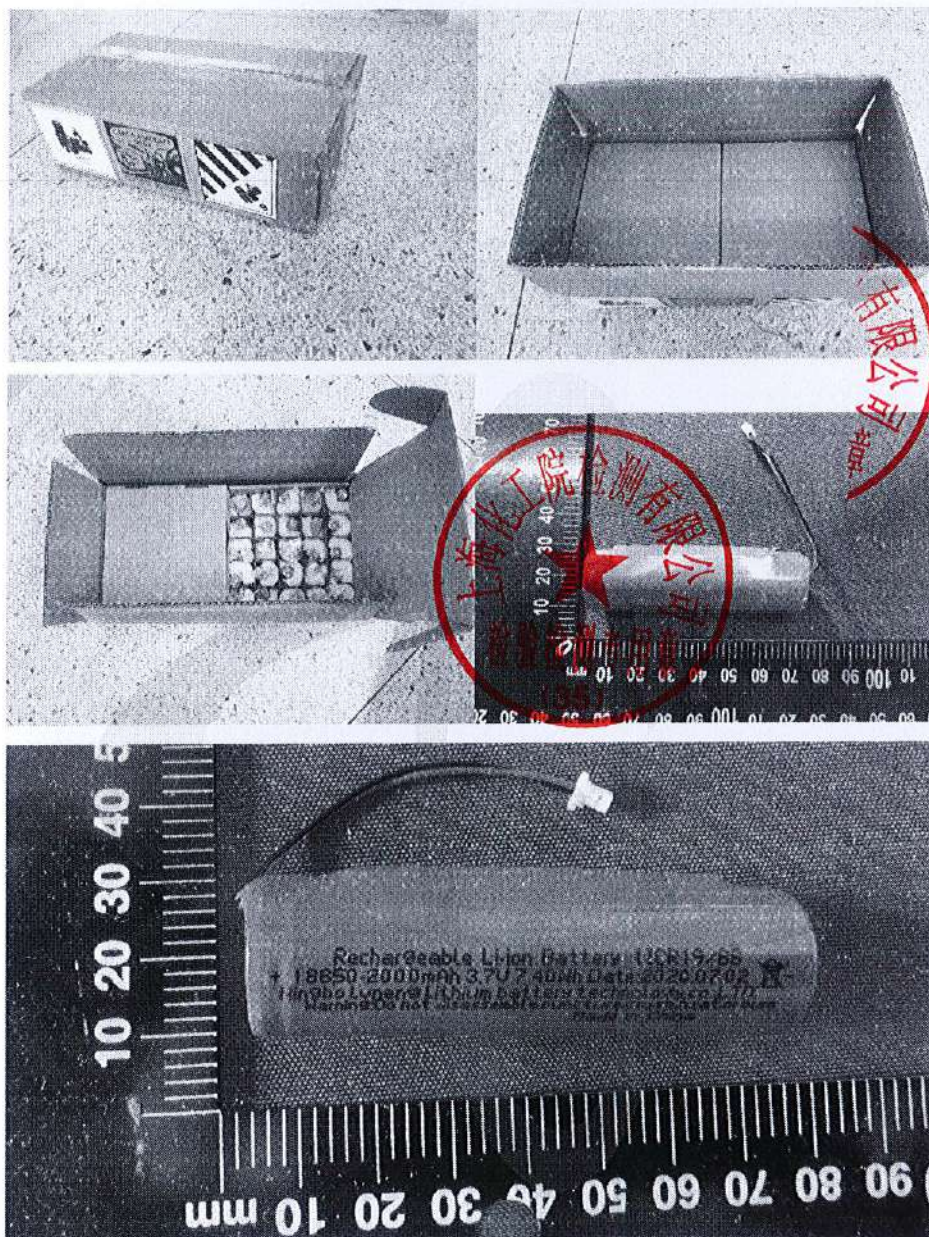
序号 No.	检验结果及其他事项 Inspection results and other things
1	本报告所述锂电池按照《危险品规则》(63版)[以下简称DGR] 3.9.2.6.1(e)规定的质量管理体系进行制造。 本报告所述锂电池不属于因安全原因召回的锂电池。 本报告所述锂电池不进行以回收或处置为目的的航空运输,不属于废弃锂电池。 Lithium cells and batteries listed in this report were manufactured under the quality management program described in IATA DGR 63rd 3.9.2.6.1(e). Lithium cells and batteries listed in this report are not the defective cells or batteries returned to the manufacturer for safety reasons. Lithium cells and batteries listed in this report are not waste lithium cells or batteries, and they will not be shipped for recycling or disposal.
2	本报告所述锂电池已通过《联合国试验和标准手册》第III部分38.3小节相应测试要求。 包装件能够承受1.2m跌落试验。 Lithium cells and batteries listed in this report are of the types proved to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3. The package has passed the 1.2m drop test. UN38.3试验概要编号 The UN38.3 Test Summary No. (s) 812000400461734 详细信息请扫描右侧二维码。 Please scan the QR code on the right for more information. 
3	锂电池完全封装在内包装内,位于坚固的刚性外包装中。 电池具有适当的防短路措施。 Lithium cells and batteries are packed in inner packagings that completely enclose the cell or battery and placed in a strong rigid outer packaging. Cells and batteries are properly protected to prevent short circuits.
4	按DGR 1B部分托运的电池必须根据第8部分规定在托运人申报单中描述;并且当使用航空货运单时,货运单必须包含8.2.1和8.2.2中相关适用要求。 Cells or batteries shipped under the provisions of Section 1B in IATA DGR must be described on a Shipper's Declaration as set out in Section 8, and the air waybill, when used, must contain the applicable information required by 8.2.1 and 8.2.2.
5	除使用9类锂电池危险性标签(DGR图7.3.X)外,每个包装件必须按DGR图7.1.C所示做耐久清晰的标记。 每个包装件必须按DGR 7.1.4.1(a)和(b)要求标记,此外当7.1.4.1(c)有要求时还必须标明包装件净重。 每个包装件必须贴有“仅限货机”标签(DGR图7.4.B)。 Each package must be durably and legibly marked with the mark shown in Figure 7.1.C in IATA DGR in addition to the Class 9-Lithium Battery hazard label (Figure 7.3.X in IATA DGR). Each package must be marked in accordance with the requirements of 7.1.4.1(a) and (b) in IATA DGR and in addition the net weight when required by 7.1.4.1(c) must be marked on the package. Each package must be labelled with the "Cargo Aircraft Only" label (Figure 7.4.B in IATA DGR).
6	根据委托单位声明,本报告所述锂离子电池交付运输时,其荷电状态必须不超过额定容量的30%。 According to the statement of the consignor, lithium ion cells and batteries listed in this report must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated capacity.
7	电池不得与第1类爆炸品(1.4S项除外),2.1项易燃气体,第3类易燃液体,4.1项易燃固体或5.1项氧化性物质等危险品包装在同一外包装或集合包装内。 Cells and batteries must not be packed in the same outer packaging or overpack with dangerous goods classified in Class 1 (explosives) other than Division 1.4S, Division 2.1 (flammable gases), Class 3 (flammable liquids), Division 4.1 (flammable solids) or Division 5.1 (oxidizers).
-验证码:254662-	

货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 212200117184796

Page 3/3



报告结束



货物运输条件鉴定书

Certification
for Safe Transport of Chemical Goods

锂电池类货物

样品名称：可充电锂离子电池 18650-2000mAh 3.7V 2000mAh 7.4Wh

Sample name: Rechargeable Li-ion Battery 18650-2000mAh 3.7V 2000mAh 7.4Wh

委托单位：宁波绿能锂电池科技有限公司
Ningbo Lyneng Lithium Battery Technology Co., Ltd.

生产单位：宁波绿能锂电池科技有限公司
Ningbo Lyneng Lithium Battery Technology Co., Ltd.



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Shanghai Institute of Chemical Industry Testing Co., Ltd



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Certification for Safe Transport of Chemical Goods

Page 1/3

样品名称 Sample Name	中文 Chinese	可充电锂离子电池 18650-2000mAh 3.7V 2000mAh 7.4Wh		
	英文 English	Rechargeable Li-ion Battery 18650-2000mAh 3.7V 2000mAh 7.4Wh		
委托单位 Consignor		宁波绿能锂电池科技有限公司 Ningbo Lvneng Lithium Battery Technology Co., Ltd.		
生产单位 Manufacturer		宁波绿能锂电池科技有限公司 Ningbo Lvneng Lithium Battery Technology Co., Ltd.		
检验方法、程序 Inspection method and procedure		国际海事组织《国际海运危险货物规则》(2020版) IMO International Maritime Dangerous Goods Code (2020 Edition)		
样品外观 Sample appearance		蓝色圆柱型塑料薄膜外壳 Blue Cylinder plastics film shell		
包装件信息 Package information		重量≤30kg. weight≤30kg.		
序号 NO.	电池种类 Battery type	型号 Model	容量Capacity / 锂含量Li content	放置方式 Placement
1	可充电锂离子单电芯电池 Rechargeable Li-ion single cell battery	18650-2000mAh	2000mAh 7.4Wh	电池单独运输 Battery only
鉴定 结论	1. 危险性识别 (Hazards identification)			
	锂离子电池。 Lithium ion battery.			
	2. 海运按照国际海事组织《国际海运危险货物规则》办理的类项 (Suggestion according to IMO IMDG Code) 根据特殊规定188, 该物品不受IMO IMDG Code其他条款限制。 The article is not subject to other provisions of IMO IMDG Code according to special provision 188.			
	3. 包装要求 (Packaging requirements) 无。 None.			
检验日期: Inspection Date:		签发日期: Issue Date:		生效日期: Effective Date:
2022-01-07		2022-01-07		2022-01-07
备注 Comment				

批准
Approver: 王军

审核
Checker: 董学胜

主检
Appraiser: 顾杨幸



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NO. 212200817684097

Page 2/3

序号 No.	检验结果及其他事项 Inspection results and other things
1	本报告所述锂电池按照《国际海运危险货物规则》(2020版) 2.9.4.5规定的质量管理体系进行制造。 Lithium cells and batteries listed in this report were manufactured under the quality management program described in IMDG CODE 2020 EDITION 2.9.4.5.
2	本报告所述锂电池已通过《联合国试验和标准手册》第III部分38.3小节相应测试要求。 包装件能够承受1.2m跌落试验。 Lithium cells and batteries listed in this report are of the types proved to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3. The package has passed the 1.2m drop test. UN38.3试验概要编号 The UN38.3 Test Summary No. (s) 812000400461734 详细信息请扫描右侧二维码。 Please scan the QR code on the right for more information. 
3	锂电池完全封装在内包装内, 位于坚固的外包装中。 Lithium cells and batteries are packed in inner packagings that completely enclose the cell or battery and placed in a strong outer packaging.
4	电池具有适当的防短路措施。 Cells and batteries are properly protected to prevent short circuits.
5	每个包装件必须标示恰当的锂电池标记。 装有锂电池的包装件, 符合国际民航组织《危险物品安全航空运输技术细则》第4部分第11章的包装说明965或968第IB部分规定的, 黏贴5.2.1.10(锂电池标记)和5.2.2.2所示的9A型标签, 应视为符合本特殊规定188的规定。 Each package shall be marked with the appropriate lithium battery mark. Packages containing lithium batteries packed in conformity with the provisions of part 4, chapter 11, packing instructions 965 or 968, section IB of the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by air that bear the mark as shown in 5.2.1.10(lithium battery mark) and the label shown 5.2.2.2, Model No.9A shall be deemed to meet the provisions of this special provision 188.
6	
7	

-验证码:566462-



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 212200817684097

Page 3/3



报告结束



三帕认证

Safety Data Sheet

安全技术说明书

Product Name 产品名称: Rechargeable Li-ion Battery
可充电锂离子电池

Model 型号: 18650-2000mAh

Issue Date 签发日期: 2021.12.30

Effective date 生效日期: 2022.01.01

Report No. 报告号: NBFS20211228SDS05

Compiler 编制: Jack Yang

Reviewer 审核: Tracy Chen

Approver 批准: Leo Chi

广州三帕认证技术服务有限公司

Guangzhou CP-UP Certification Technology Service Co., Ltd.



Tel: 86-020 3112 7037 Email: info@cp-up.com Website: www.cp-up.com

**Section 1 - Chemical and Company Identification****第一部分-化学品及企业标识**

Product Name 产品名称	Rechargeable Li-ion Battery 可充电锂离子电池	
Model/型号	18650-2000mAh	
Ratings/额定参数	3.7V, 2000mAh, 7.4Wh	
Applicant 申请商	Ningbo Lvneng Lithium Battery Technology Co., Ltd. 宁波绿能锂电池科技有限公司	
Applicant address 申请商地址	Jiangning road, jiangkou street, fenghua district, ningbo city, zhejiang province, China 浙江省宁波市奉化区江口街道江宁路	
Manufacturer 制造商	Ningbo Lvneng Lithium Battery Technology Co., Ltd. 宁波绿能锂电池科技有限公司	
Manufacturer Contact information 制造商联系信息	address 地址	Jiangning road, jiangkou street, fenghua district, ningbo city, zhejiang province, China 浙江省宁波市奉化区江口街道江宁路
	Tel./应急电话	86-18069253365
	Email/邮箱	81386729@qq.com

Section 2 - Hazards Identification**第二部分-危险性概述****Hazards Identification: 危险性描述**

Not dangerous with normal use. Do not dismantle, open or shred the battery ingredients contained within or their ingredients products could be harmful.

正常使用没有危险，不能拆解、打开或分解电池，里面的材料或成分是有危害的。

Primary Route (s) of Exposure: 接触途径

inhalation, ingestion, Skin contact and Eye contact.

吸入、食入、皮肤接触、眼睛接触。

Potential Health Effects: 潜在健康影响

inhalation: Vapors or mists from a ruptured battery may cause respiratory irritation.

吸入: 破裂的电池散发出来的气雾会引起呼吸道刺激。

Ingestion: The battery ingredients contained within or their ingredients products can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

食入: 电池的组成成分或原料可以导致嘴，食道和胃肠道的严重化学烧伤。

Skin: Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

皮肤: 皮肤接触到电池的内部化学材料可能会导致严重的刺激或烧伤皮肤。

Eye: Eye contact with contents of an open battery can cause severe irritation or burns to the eye.

眼睛: 眼睛接触到电池的内部化学材料可能会导致严重的刺激或烧伤眼睛。

**Section 3- Composition/Information on Ingredients****第三部分-成分/组成信息**

Chemical Name 化学名称	CAS Number CAS 号 (化学文摘索引登记号)	Concentration or concentration ranges (%) 浓度或浓度范围(%)
Lithium Cobalt Oxide	12190-79-3	35.05
Graphite powder	7782-42-5	15.98
Carbon black	1333-86-4	0.79
Hexafluoropropylene-vinylidene fluoride copolyme	9011-17-0	9.87
Dimethyl carbonate	616-38-6	4.38
Ethyl methyl carbonate	623-53-0	2.29
Lithium hexafluorophosphate	21324-40-3	2.95
Ethylene carbonate(EC)	96-49-1	6.34
Diethyl carbonate(DEC)	105-58-8	2.76
Propylene carbonate(PC)	108-32-7	1.11
Copper	7440-50-8	8.39
Styrene-butadiene rubber(SBR)	61789-96-6	0.71
Aluminium	7429-90-5	9.38

Note: CAS number is Chemical Abstract Service Registry Number.

注意：CAS 号是化学文摘服务注册号。

N/A=Not apply.

N/A=不适用

Section 4- First Aid Measure**第四部分-急救措施**

Inhalation 吸入	Remove source of contamination or move victim to fresh air. Obtain medical advice. 移除污染源或者将受害者移至新鲜空气处。寻求医生建议。
Ingestion 食入	Please rinse mouth thoroughly with water, induce vomiting under the guidance of professional personage. Please seek medical treatment in time. 立即用清水漱口，在专业人士的指导下催吐，速就医。
Skin contact 皮肤接触	Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid. 脱下已污染衣服，用大量的水冲洗至少 15 分钟，速就医。
Eye contact 眼睛接触	Irrigate with flowing water for 15 minutes. If irritation persists, consult a physician. 用流动水冲洗 15 分钟，如刺激持续发生，请求助于医生。

**Section 5- Fire Fighting Measures****第五部分-消防措施**

Characteristics of Hazard 危险特性	Toxic fumes, gases or vapors may evolve on burning. 火灾时可释放有害浓烟、气体或者蒸汽。
Hazardous Combustion Products 燃烧产生的危险物品	Carbon monoxide, carbon dioxide, lithium oxide fumes and so on. 一氧化碳, 二氧化碳, 锂氧化物烟气等。
Fire-extinguishing Methods and Extinguishing Media 灭火方法及灭火剂	Please use water, dry sand and other proper fire extinguishing media. 请使用水, 干沙等合适的灭火介质。
Attention in Fire-extinguishing 灭火注意事项	The firemen should put on antigas masks and full fire-fighting suits. 消防人员须佩戴防毒面具、穿全身消防服。

Section 6- Accidental Release Measure**第六部分-泄漏应急处理**

Personal Precautions, protective equipment, and emergency procedures 个人预防措施、防护装备和应急程序	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8. 限制区域, 直到完成清理工作。请勿触摸泄漏的材料。穿戴适当的个人防护设备, 如第 8 部分所示。
Environmental Precautions 环境保护措施	Prevent material from contaminating soil and from entering sewers or waterways. 防止物质污染土壤和进入下水道或水道。
Methods and materials for Containment 方法和材料控制	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately. 出于安全, 阻止泄漏, 可以用干沙或沙土来遏制液体泄露, 立即清理泄漏。
Methods and materials for cleaning up 清理的方法和材料	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal. 用惰性吸收剂(干沙或沙土)吸收溢出的材料。污染物转移到可吸收废物的容器。收集所有受污染的吸收剂和根据第 13 部分的指令处置。用洗涤剂和水清洁污染区域, 收集所有受污染的洗涤水进行适当处置。

Section 7- Handling and Storage**第七部分-操作处置与储存**

Handling 操作	Don't handling the batteries in manner that allows terminals to short circuit. Do not open, disassemble, crush or burn battery. 不要以让接头短路的方式对电池进行操作。不要打开, 分解, 挤压或燃烧电池。
Storage 储存	if the battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the battery periodically.



	如果电池长期存放超过 3 个月，建议定期对电池充电。 Long period storage: 25±5°C, 60±25%R.H 长期存储: 25±5°C,相对湿度 60±25% Do not storage the battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. 不要将电池随意丢在盒子或抽屉里，以免电池之间或电池与其他金属物质发生短路。 Keep out of reach of children. 储存在小孩接触不到的地方。 Do not expose the battery to heat or fire. Avoid storage in direct sunlight. 不要将电池暴露在火源和热源附近，避免在阳光直射下存储。 Do not store together with oxidizing and acidic materials. 不要与氧化和酸性物质存储在一起。
--	---

Section 8 - Exposure Controls/Personal Protection**第八部分-接触控制和个体防护**

Engineering Controls 工程控制	No engineering controls are required for handling batteries that have not been damaged. Personal protective equipments for damaged batteries should include chemical resistant gloves and safety glasses. 操作未破损的电池，没有工程控制要求。对于破损的电池，个人防护用品应包括化学品防护手套和安全眼镜。
Personal Protective Equipment 个人防护设备	Respiratory Protection: in case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use. Not necessary under conditions of normal use. 呼吸保护：当电池排气阀打开时，应尽量使通风设备开至最大，避免将打开排气阀的电芯局限在某一狭窄空间内。正常操作条件下，呼吸保护是不必要的。正常使用条件下不必考虑。 Protective Gloves: Not necessary under conditions of normal use. 防护手套：正常使用条件下不必考虑。 Other Protective Clothing or Equipment: Not necessary under conditions of normal use. 其他防护服装或设备：正常使用条件下不必考虑。 Personal Protection is recommended for venting battery: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields. 当电池排气阀打开时，应做好个人防护。呼吸防护，防护手套，防护服装和有护边的安全玻璃罩都是要准备的。

Section 9- Physical and Chemical Properties**第九部分-理化特性**

Appearance: Blue 外观颜色: 蓝色
Physical state: Solid 物理状态: 固体
Form: Cylindrical



形状: 圆柱形
Melting Point °C: >300°C 熔点°C: >300°C
Odor: Odorless 气味: 无气味
Solubility: Partial soluble in water 溶解度: 部分溶于水

Section 10 - Stability and Reactivity**第十部分-稳定性和反应性**

Stability 稳定性	Stable under normal temperatures and pressures. 常温常压下稳定。
Conditions to Avoid 应避免的条件	Heat above 70°C or Incinerate, Deform, Mutilate, Crush, Disassemble, Overcharge, Short circuit, Expose over a long period to humid conditions. 加热 70°C 以上或焚烧、变形、毁坏、粉碎、拆卸、过充电、短路, 长时间暴露在潮湿的条件下。
Hazardous Decomposition Products 危害分解物	Toxic Fumes, and may form peroxides. 有毒烟雾, 并可能形成过氧化物。
Possibility of Hazardous Reaction 危险反应的可能性	If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons. 如果发生泄露, 避免与强氧化剂, 无机酸, 强碱, 卤代烃接触。

Section 11 - Toxicological Information**第十一部分-毒理学信息**

Irritation 刺激	In the event of exposure to internal contents, vapor fumes may be very irritating to the eyes and skin. 内部物质暴露的情况下, 蒸汽烟雾可能对眼睛和皮肤产生刺激性。
Sensitization 致敏	Not applicable. 不适用
Reproductive Toxicity 再生毒性	Not applicable. 不适用
Toxicologically Synergistic Materials 协同材料毒理学	Not applicable. 不适用

Section 12-Ecological Information**第十二部分-生态学信息**

General note 通用信息	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 不允许未稀释或大量的产品到达地下水、水道或污水系统。
Anticipated behavior of a chemical product in environment/possible	Not applicable. 不适用



environmental impact/ ecotoxicity 化学产品在环境/可能的环境预期的行为的一种生态毒性	
Mobility in soil 土壤中移动性	Not applicable. 不适用
Persistence and Degradability 持久性和降解性	Not applicable. 不适用

Section 13 - Disposal Considerations**第十三部分-废弃处置**

Waste Treatment 废弃处置方法	Recycle or dispose of in accordance with government, state & local regulations. 建议遵照国家和地方法规处置或再利用。
Attention for Waste Treatment 废弃注意事项	Deserted batteries couldn't be treated as ordinary trash. Couldn't be thrown into fire or placed in high temperature. Couldn't be dissected, pierced, crushed or treated similarly. Best way is recycling. 废电池不能被当做普通垃圾。不能扔进火中或置于高温下。不能解体，刺穿，破碎或类似的处理。最好的办法是回收利用。

Section 14 - Transport Information**第十四部分-运输信息**

The battery shall be passed the test items of the UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria" section 38.3 and meet the requirements of UNITED NATIONS "Recommendations on the Transport of Dangerous Goods, model Regulations "

该电池必须通过联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 章节的测试项目和满足联合国《关于危险货物运输的建议书 规章范本》的要求。

The battery shall be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to short circuit;

该电池必须做好防短路保护。包括防止与同一封装内的导电材料接触可能导致的短路。

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking.

包装应足以避免在运输，处理和堆放期间的机械损坏。

The package must be handled with care and that a flammability hazard exists if the package is damaged. 包装必须小心处理，如果包装损坏，存在易燃危险。

With regard to transport, the following regulations are cited and considered:

关于运输，引用和考虑了以下法规：

-The international Civil Aviation Organization (ICAO) Technical Instructions.

-国际民用航空组织(ICAO)技术细则。

-The international Air transport Association (IATA) Dangerous Goods Regulations.

-国际航空运输协会(IATA)危险物品规则。

The battery can be shipped by air in according to PACKING INSTRUCTION 965 Section IB, or PACKING



INSTRUCTION 966~967 Section II of the 2022 IATA Dangerous Goods regulations 63rd Edition.

该电池可以根据 2022 年 IATA 危险物品规则第 63 版包装指令 965 第 IB 部分或包装指令 966~967 第 II 部分运输。

UN number: UN3480 or UN3481;

UN 编号: UN3480 或 UN3481:

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment;

UN 合适的运输名称/描述(技术名称): 锂离子电池或锂离子电池与设备包装在一起或锂离子电池内置于设备中;

UN Classification (Transport hazard class): Class 9 (PI965 Section IB) or N/A (PI966~967 Section II)

UN 分类(运输危险类别): 9 类危险品(包装指令 965 第 IB 部分)或者不适用(包装指令 966~967 第 II 部分)

UN packaging group: N/A

UN 包装类别: 不适用

-The international Maritime Dangerous Goods (IMDG) Code.

-国际海运危险货物(IMDG)规则。

UN number: UN3480 or UN3481;

UN 编号: UN3480 或 UN3481;

UN Proper shipping name/Description (technical name): Lithium ion batteries or Lithium ion batteries packed with equipment or Lithium ion batteries contained in equipment;

UN 合适的运输名称/描述(技术名称): 锂离子电池或锂离子电池与设备包装在一起或锂离子电池内置于设备中;

UN Classification (Transport hazard class): N/A

UN 分类(运输危险类别): 不适用

UN packaging group: N/A

UN 包装类别: 不适用

The battery is not restricted according to IMO IMDG Code (inc. Amendment 40-20) Special Provision 188.

海运按照国际海事组织《国际海运危险货物规则》(40-20 版)特殊规定 188 不受限制。

Section 15 - Regulatory Information

第十五部分-法规信息

International Civil Aviation Organization (ICAO) Technical Instructions

ICAO 国际民用航空组织(ICAO)技术细则:

1.Unless be exempted according to ICAO TI, the lithium ion cell/batteries (UN 3480, PI 965) and lithium metal cell/batteries (UN 3090, PI 968) are forbidden for carriage on passenger aircraft.

除非依据《技术细则》的相关要求取得豁免,单独包装的锂离子电池(芯)(UN 3480, PI 965)和锂金属电池(芯)(UN 3090, PI 968)货物禁止使用客机运输。

2.Unless be approved according to ICAO TI, Lithium ion cells/batteries (UN 3480, PI 965) must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.

除非依据《技术细则》的相关要求取得特别批准,按照包装说明 965 要求运输的锂离子电池(芯)货物,交运时锂离子电池(芯)的荷电状态不得超过其额定容量的 30%。

Section 16 - Additional Information

第十六部分-附加信息

Compile unit 编制单位:

Guangzhou CP-UP Certification Technology Service Co., Ltd.

广州三帕认证技术服务有限公司

Room C101, C102, C103, and C104, No 9, Hengji Road, Yunxing Zhukeng Village, Shiqiao Street, Panyu District, Guangzhou City, China



广州市番禺区市桥街云星珠坑村横基路 9 号 C101、C102、C103、C104 室

Tel./电话: 0086-20-31127037

Web/网址: www.cp-up.com

Email/邮箱: info@cp-up.com

Revision 修订: 0

Other Information 其他信息:

The information above is believed to be accurate and represents the best information currently available to us. However, we makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

在我们看来上面的信息是准确的，这是我们目前能提供的最佳的信息。但是，对于这些信息，我们不对商品的性能做任何明示的或者暗示的保证，我们也不对使用这些信息造成的后果担负任何责任。用户应当自己调查研究后决定这些信息是否适用于他们的特定用途。尽管在该文档里提出了合理的预警，但是这仅仅只是给您做参考、考量和调查。这份安全技术说明书提供了安全处理和使用该产品的指南，但是它没有，也不能对所有可能发生的情景提出建议，所以您需要根据您对该产品的特定使用情况来决定是否需要其他的预防措施。

--End of report--

--报告结束--



UN38.3 试验概要

UN38.3 Test Summary

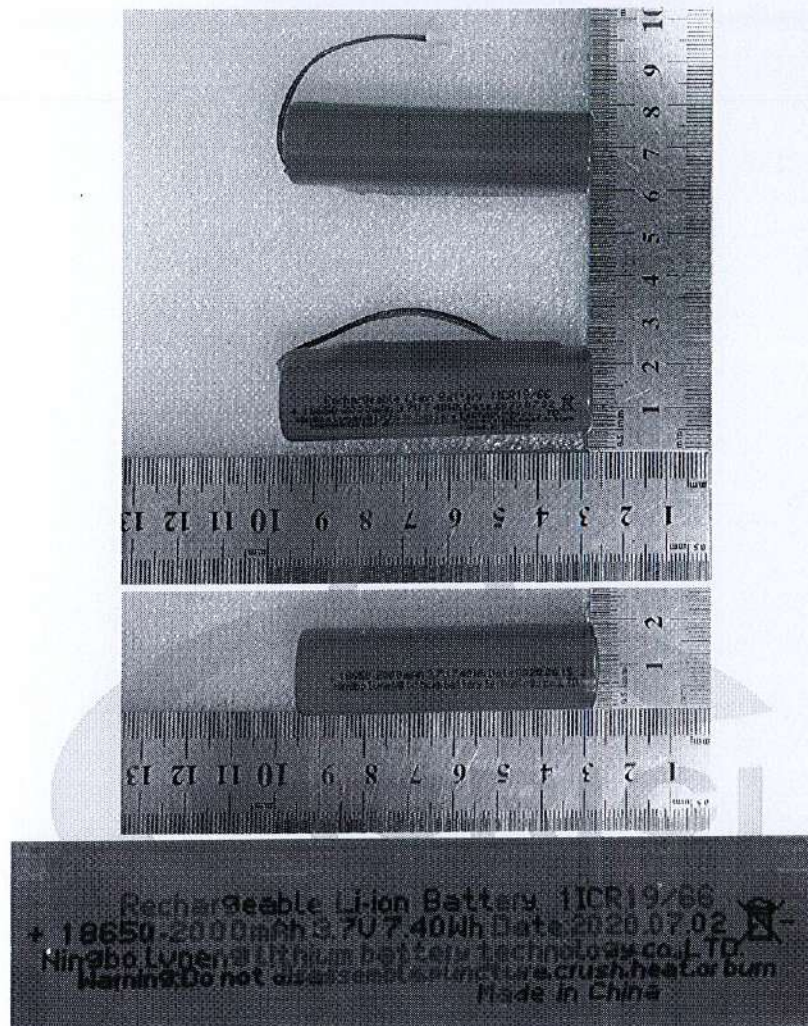


812000400461734

单位信息 Company information			
委托单位 Consignor	宁波绿能锂电池科技有限公司 Ningbo Lvneng Lithium Battery Technology Co., Ltd. 浙江省宁波市奉化区江口街道江宁路 Jiangning road, jiangkou street, fenghua district, ningbo city, zhejiang province, China 18069253365 81386729@qq.com /		
生产单位 Manufacturer	宁波绿能锂电池科技有限公司 Ningbo Lvneng Lithium Battery Technology Co., Ltd. 浙江省宁波市奉化区江口街道江宁路 Jiangning road, jiangkou street, fenghua district, ningbo city, zhejiang province, China 18069253365 81386729@qq.com /		
测试单位 Test lab	上海化工院检测有限公司 Shanghai Research Institute of Chemical Industry Testing Co., Ltd. 中国.上海.普陀区云岭东路 345 号, 200062 No.345 East Yunling Road, Putuo, Shanghai, China 200062 86-21-31765555 battery@ghs.cn www.ghs.cn		
电池信息 Battery information			
名称 Name	可充电锂离子电池 Rechargeable Li-ion Battery	品牌 Brand	/
型号 Type	18650-2000mAh	原始测试型号 Original tested type	/
标称电压(V) Nominal voltage	3.7	容量/能量 Capacity/energy	2000mAh 7.40Wh
描述 Description	可充电锂离子单电芯电池 Rechargeable Li-ion single cell battery	锂含量(g) Li content	/
质量(kg) Mass	0.0450	外观 Appearance	蓝色圆柱型塑料薄膜外壳 blue cylinder plastics film shell
测试信息 Test information			
原报告编号 Original test report No.	1120070130	测试报告日期 Date of test report	2020-08-13
测试标准 Test standard	联合国《关于危险货物运输的建议书 试验和标准手册》第 38.3 章 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria 38.3 ST/SG/AC.10/11/Rev.6/Amend.1		
T.1 高度模拟 Altitude simulation	合格 Passed	T.2 温度测试 Thermal test	合格 Passed
T.3 振动测试 Vibration	合格 Passed	T.4 冲击测试 Shock	合格 Passed
T.5 外部短路 External short circuit	合格 Passed	T.6 撞击 Impact	合格 Passed
T.7 过度充电 Overcharge	合格 Passed	T.8 强制放电 Forced discharge	合格 Passed
38.3.3 (f)	/	38.3.3 (g)	/



样品图片 Sample Picture



结论 Conclusion	测试样品符合联合国《关于危险货物运输的建议书试验和标准手册》ST/SG/AC.10/11/Rev.6/Amend.1 38.3 标准要求。The tested samples meet the requirements of test items of the UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend.1 38.3		
备注 Remark	/		
签名 Signature 职务 Title	王寅 副总工程师 Vice chief engineer	签发日期 Issued date	2020-08-17

-验证码:830077-

报告结束



NO.1120070130

检 测 报 告

Test Report

样品名称： 可充电锂离子电池 18650-2000mAh 3.7V 2000mAh 7.40Wh

Name of Sample: Rechargeable Li-ion Battery 18650-2000mAh 3.7V
2000mAh 7.40Wh

委托单位： 宁波绿能锂电池科技有限公司

Consignor: Ningbo Lvneng Lithium Battery Technology Co., Ltd.

上海化工院检测有限公司

Shanghai Research Institute of Chemical Industry Testing Co., Ltd.



上海化工院检测有限公司 检测报告

Shanghai Research Institute of Chemical Industry
Testing Co., Ltd. Test Report

NO. 1120070130

1/11

样品名称 Name of Sample	中文 Chinese	可充电锂离子电池 18650-2000mAh 3.7V 2000mAh 7.40Wh	
	英文 English	Rechargeable Li-ion Battery 18650-2000mAh 3.7V 2000mAh 7.40Wh	
样品编号 Sample No.	1120070130		
委托单位 Consignor	宁波绿能锂电池科技有限公司 Ningbo Lvneng Lithium Battery Technology Co., Ltd.		
生产单位 Manufacturer	宁波绿能锂电池科技有限公司 Ningbo Lvneng Lithium Battery Technology Co., Ltd.		
检测方法 Test method	联合国《关于危险货物运输的建议书 试验和标准手册》 ST/SG/AC.10/11/Rev.6 Amend.1 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3		
判定标准 Criterion	联合国《关于危险货物运输的建议书 试验和标准手册》 ST/SG/AC.10/11/Rev.6 Amend.1 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3		
样品外观 Appearance	蓝色 圆柱型塑料薄膜外壳 Blue Cylinder plastics film shell		
样品接受日期 Accepted Date	2020-07-08	检测起始日期 Test Date	2020-07-10 ~ 2020-08-13
检测项目 Test Items	高度模拟;热测试;振动;冲击;外短路;撞击;过充电;强制放电 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Impact, Overcharge, Forced discharge		
检测结论 Conclusion	经检测,该样品符合联合国《关于危险货物运输的建议书 试验和标准手册》 ST/SG/AC.10/11/Rev.6 Amend.1 38.3标准要求。 The sample has passed the test items of UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 38.3 生效日期(Date): 2020-08-13		
备注 Comment	可充电单电芯电池Rechargeable Single Cell Battery.		
委托单位地址 Consignor Address	/		邮政编码 Post Code /

批准
Approver:
职务
Title:

审核
Checker:
陆建峰
副总工程师(Vice chief engineer)

编制
Compiler:
傅强



上海化工院检测有限公司

检 测 报 告

Shanghai Research Institute of Chemical Industry
Testing Co., Ltd. Test Report

NO. 1120070130

2/11

序号 No.	检测项目名称 Name of Test Items	标准要求或标准条款号 Standard requirement or The Clause Number of Standard	检测结果 Test Result	本项结论 Conclusion	备注 Remark
1	高度模拟 Altitude simulation	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.1 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.1	见附表 1 See Appendix 1	合格 Passed	/
2	热测试 Thermal test	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.2 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.2	见附表 2 See Appendix 2	合格 Passed	/
3	振动 Vibration	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.3	见附表 3 See Appendix 3	合格 Passed	/
4	冲击 Shock	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.4 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.4	见附表 4 See Appendix 4	合格 Passed	/
5	外短路 External short circuit	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.5 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.5	见附表 5 See Appendix 5	合格 Passed	/
6	撞击 Impact	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.6 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.6	见附表 6 See Appendix 6	合格 Passed	/
7	过充电 Overcharge	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.7 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.7	见附表 7 See Appendix 7	合格 Passed	/
8	强制放电 Forced discharge	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.8 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.8	见附表 8 See Appendix 8	合格 Passed	/
检测环境条件 Test Environment Condition		环境温度:20℃-25℃;环境湿度:/% Ambient temperature:20℃-25℃;Ambient humidity:/%			
分包检验情况 Subcontracted Test Condition		检测项目 Test Item	/		
		分包实验室 Subcontracted Laboratory	名称 Name	/	邮编 Post Code
			地址 Address	/	电话 Tel

SRICI Testing Co., Ltd. Test Report—Appendix 1

3/11

备注: L-泄漏 V-漏气 D-解体 R-破裂 F-起火 O-无泄漏、无漏气、无解体、无破裂、无起火。
Note: L-Leakage V-Venting D-Disassembly R-Rupture F-Fire O-No Leakage, No Venting,
No Disassembly, No Rupture & No Fire.

4/11

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检测报告-附表 3

SRICI Testing Co., Ltd. Test Report—Appendix 3

NO. 1120070130

5/11

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上海化工院检测有限公司
检 测 报 告 - 附表 5

SRICI Testing Co., Ltd. Test Report—Appendix 5 NO. 1120070130

7/11

序号 No.	5	检测项目名称 Name of Test Items	外短路 External short circuit
样品编号 Sample No.	样品状态 Sample Status	样品表面最高温度 Max. External Temperature /℃	其他现象 Other Event
001	1CYC完全充电 1CYC Fully charged	58.2	O
002	1CYC完全充电 1CYC Fully charged	58.5	O
003	1CYC完全充电 1CYC Fully charged	56.9	O
004	1CYC完全充电 1CYC Fully charged	58.7	O
005	1CYC完全充电 1CYC Fully charged	57.3	O
006	25CYC完全充电 25CYC Fully charged	56.6	O
007	25CYC完全充电 25CYC Fully charged	58.4	O
008	25CYC完全充电 25CYC Fully charged	56.7	O
009	25CYC完全充电 25CYC Fully charged	57.9	O
010	25CYC完全充电 25CYC Fully charged	57.4	O
以下空白	This space intentionally left blank		
备注: D-解体 R-破裂 F-起火 O-无解体、无起火、无破裂。 Note: D-Disassembly R-Ruptur F-Fire O-No Disassembly, No Fire & No Rupture.			

检测报告-附表 6

SRICI Testing Co., Ltd. Test Report—Appendix 6

NO. 1120070130

8/11

序号 No.	6	检测项目名称 Name of Test Items	撞击 Impact
样品编号 Sample No.	样品状态 Sample Status	样品表面最高温度 Max. External Temperature /°C	其他现象 Other Event
011	1CYC 50%容量 1CYC 50% Capacity	115.2	O
012	1CYC 50%容量 1CYC 50% Capacity	107.4	O
013	1CYC 50%容量 1CYC 50% Capacity	113.4	O
014	1CYC 50%容量 1CYC 50% Capacity	120.1	O
015	1CYC 50%容量 1CYC 50% Capacity	96.2	O
016	25CYC 50%容量 25CYC 50% Capacity	97.8	O
017	25CYC 50%容量 25CYC 50% Capacity	105.9	O
018	25CYC 50%容量 25CYC 50% Capacity	102.8	O
019	25CYC 50%容量 25CYC 50% Capacity	87.2	O
020	25CYC 50%容量 25CYC 50% Capacity	104.2	O
以下空白	This space intentionally left blank		

备注：D-解体 F-起火 O-无解体、无起火。
Note: D-Disassembly F-Fire O-No Disassembly & No Fire.

SRICI Testing Co., Ltd. Test Report—Appendix 7

9/11

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上海化工院检测有限公司
检 测 报 告 - 附表 8

SRICI Testing Co., Ltd. Test Report—Appendix 8 NO.1120070130

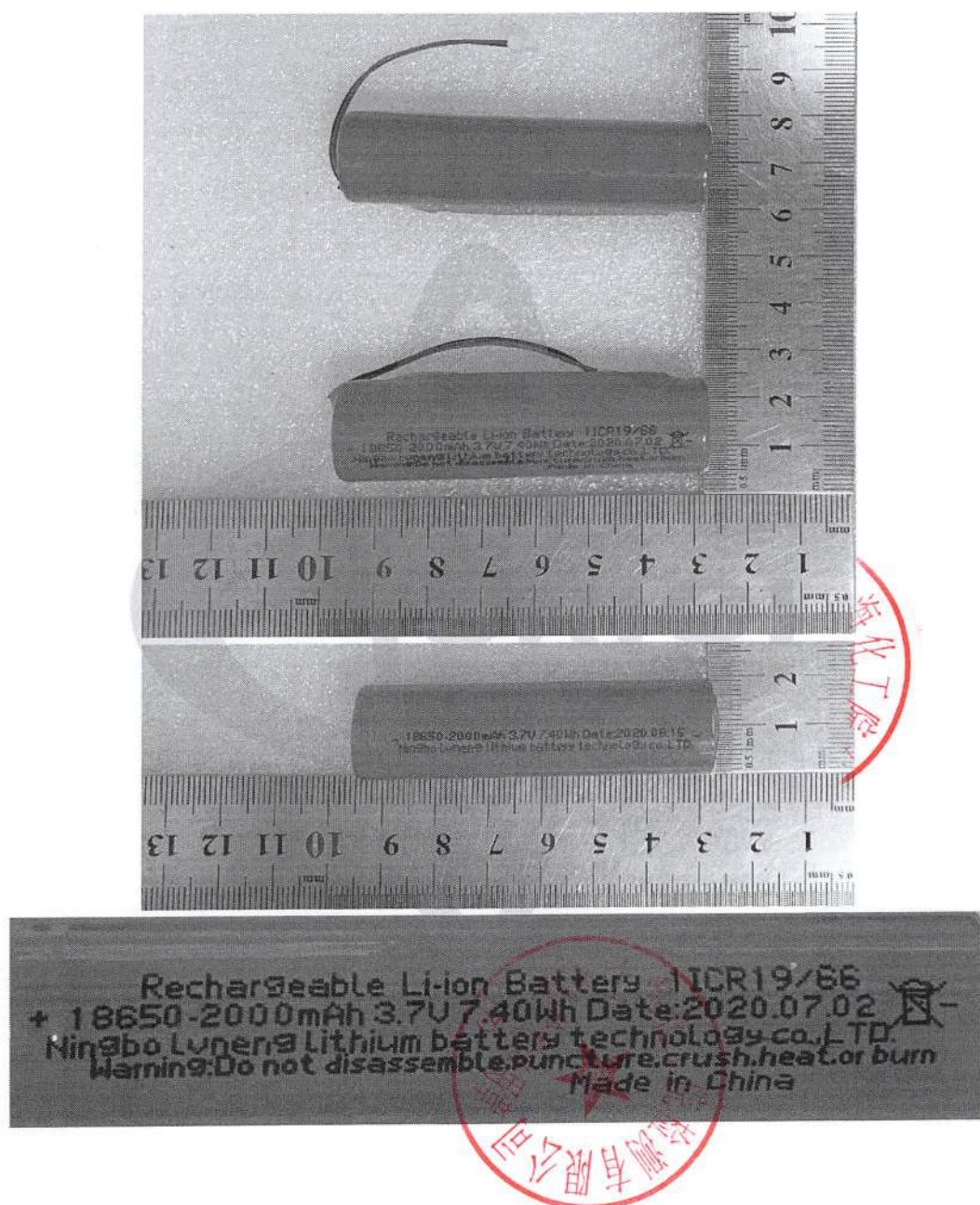
10/11

序号 No.	8	检测项目名称 Name of Test Items	强制放电 Forced discharge
样品编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
029	1CYC完全放电 1CYC Fully discharged	O	
030	1CYC完全放电 1CYC Fully discharged	O	
031	1CYC完全放电 1CYC Fully discharged	O	
032	1CYC完全放电 1CYC Fully discharged	O	
033	1CYC完全放电 1CYC Fully discharged	O	
034	1CYC完全放电 1CYC Fully discharged	O	
035	1CYC完全放电 1CYC Fully discharged	O	
036	1CYC完全放电 1CYC Fully discharged	O	
037	1CYC完全放电 1CYC Fully discharged	O	
038	1CYC完全放电 1CYC Fully discharged	O	
039	25CYC完全放电 25CYC Fully discharged	O	
040	25CYC完全放电 25CYC Fully discharged	O	
041	25CYC完全放电 25CYC Fully discharged	O	
042	25CYC完全放电 25CYC Fully discharged	O	
043	25CYC完全放电 25CYC Fully discharged	O	
044	25CYC完全放电 25CYC Fully discharged	O	
045	25CYC完全放电 25CYC Fully discharged	O	
046	25CYC完全放电 25CYC Fully discharged	O	
047	25CYC完全放电 25CYC Fully discharged	O	
048	25CYC完全放电 25CYC Fully discharged	O	
备注: D-解体 F-起火 O-无解体、无起火。 Note: D-Disassembly F-Fire O-No Disassembly & No Fire.			

上海化工院检测有限公司
检测报告-附图

SRICI Testing Co., Ltd. Test Report—Appendix NO. 1120070130

11/11



报告结束