

Test Report

Report No.: U00902220321110E

Query Password: QW6492

Date: Mar. 24, 2022

Page 1 of 5

Applicant: Tianxunda Energy Technology Co., LTD**Contact information:** 2F, Building 5 Industrial Plants, Jin Wanli Industrial Park, No.11 Guanguang Road,
Guangming Street, Guangming New Zone, Shenzhen City China**The following sample(s) was (were) submitted and identified by client as:**

Sample Description : Li-ion Polymer Battery

Model/Style No. : TXD 113655

Manufacturer : Tianxunda Energy Technology Co., LTD

Supplier : 2F, Building 5 Industrial Plants, Jin Wanli Industrial Park, No.11 Guanguang Road, Guangming Street, Guangming New Zone, Shenzhen City China

Received Date : Mar. 21, 2022

Testing Period : From Mar. 21, 2022 to Mar. 24, 2022

Test Request : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by



Huang wen

Checked by



Lin Zhu

Approved by



Levent Liang



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Summary of Test Results:

TEST REQUEST	CONCLUSION
(1) European Directive 2006/66/EC & Amendment of 2013/56/EU Heavy Metals Content in Batteries and Accumulators and Waste Batteries and Accumulators Lead, Cadmium, Mercury content	PASS

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Test Material(s) List

Material No.	Description (Location)
1	Battery (whole)

Test result(s):

(1) Lead, Cadmium, Mercury content

Test Method: With reference to IEC 62321-5: 2013, IEC62321-4: 2013+A1:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Substances	Pb	Cd	Hg	Conclusion
Limit (mg/kg)	40	20	5	
MDL (mg/kg)	2	2	2	
Material No.	Result (mg/kg)			PASS
1	N.D.	N.D.	N.D.	

- Note:**
1.

mg/kg = milligram per kilogram (ppm).
2.

MDL = method detection limit.
3.

N.D.=not detected(or less than MDL).
4.

The test results shown of Cadmium, Mercury and Lead Content are of total weight of the battery sample
5.

Batteries, accumulators and button cells containing more than 0.0005% mercury, more than 0.002% cadmium or more than 0.004% lead, shall be marked with the chemical symbol for the metal concerned: Hg, Cd or Pb. The symbol indicating the heavy metal content shall be printed beneath the symbol shown in Annex II and shall cover an area of at least one quarter the size of that symbol

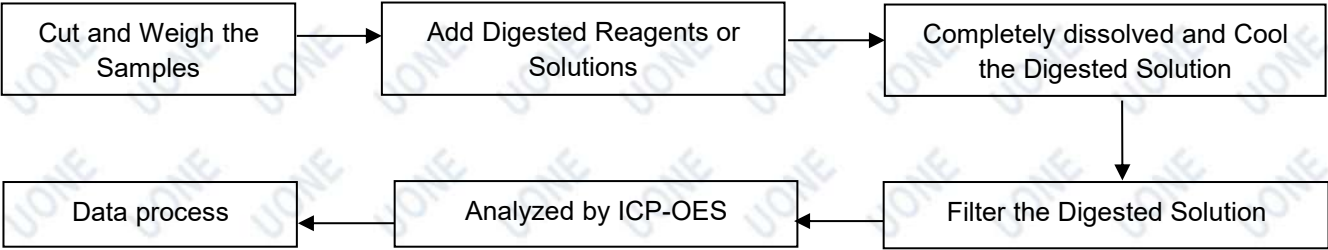
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Test Process Flow

1. Lead, Cadmium, Mercury



Photo(s) of Sample:



End of Report

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Statement

1. The information as listed on the first page of this test report was all provided by the client except the received date, testing period, test result(s) and test request. The client shall be responsible for the representativeness of sample and authenticity of materials, for which UONE shall bear no responsibilities.
2. Unless otherwise stated the results shown in this report refer only the sample(s) tested and does not bear other joint and several liabilities.
3. This report is considered invalidated without the Special Seal for Inspection of the UONE, This report shall not be altered, increased or deleted.
4. Without written approval of UONE, this report shall not be reproduced in part or published as advertisement.
5. Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.
6. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

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中国认可
检验
INSPECTION
CNAS IB0071



NO.2622010648

SAFETY DATASHEET

Product Name: Li-ion Polymer Battery TXD 113655
3.7V 2300mAh

Effective Date: 2022-02-24

Compiler: Chen Yushuang

Checker: Liu Lintian

Approver: Zhangxiangjin



Shanghai Institute of Chemical Industry Testing Co., Ltd.



Tianxunda Energy Technology Co., LTD.

SAFETY DATA SHEET

Li-ion Polymer Battery TXD 113655 3.7V 2300mAh

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Li-ion Polymer Battery TXD 113655 3.7V 2300mAh
Company: Tianxunda Energy Technology Co., LTD.
Address: 2F, Building 5, Industrial Plants, Jin Wanli Industrial Park, No. 11, Guanguang Road,
Guangming Street, Guangming New Zone, Shenzhen City, 518000, P.R.China
Email: 1042965958@qq.com
Fax: /
Emergency Phone: 86-755-89588160
Recommend use of the chemical and restrictions on use: /
SDS Number: 2622010648
Effective Date: 2022-02-24

SECTION2 HAZARDS IDENTIFICATION

The product is outside of the scope of GHS system.

Main Hazards:

Fire or Explosion Hazards:

Lithium ion battery contains flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (>150℃), when damaged or abused (e.g., mechanical damage or electrical overcharging). May burn rapidly with flare-burning effect. May ignite other batteries in close proximity.

Health Hazards:

Contact with the electrolyte of battery may be irritating to skin, eyes and mucous membranes. Fire will produce irritating, corrosive and/or toxic gases. Fumes may cause dizziness or suffocation.

SECTION3 INFORMATION ON INGREDIENTS

Product name: Li-ion Polymer Battery TXD 113655 3.7V 2300mAh

Ingredient	Concentration	CAS No.	EC No.
Lithium cobalt oxide	32.5%	12190-79-3	235-362-0

Iron	22%	7439-89-6	231-096-4
Copper	12.5%	7440-50-8	231-159-6
Lithium hexafluorophosphate	11.8%	21324-40-3	244-334-7
Graphite	10%	7782-42-5	231-955-3
Aluminum	6.5%	7429-90-5	231-072-3
Ethyl cellulose	3.95%	9004-57-3	618-384-9
Phosphatidylethanolamine		90989-93-8	292-752-3
Dimethyl carbonate		616-38-6	210-478-4
Diethyl carbonate		105-58-8	203-311-1
Nickel	0.75%	7440-02-0	231-111-4

SECTION4 FIRST-AID MEASURES

Skin Exposure:

If in contact with the internal materials of battery, remove the contaminated clothing, shoes and socks, immediately flush with plenty of water for at least 20 minutes. Call a physician.

Eye Exposure:

If in contact with the internal materials of battery, lift your eyelids immediately and rinse them with running water for more than 20 minutes. Call a physician.

Inhalation Exposure:

If the internal materials of battery are inhaled, immediately remove to fresh air. If breathing is difficult give oxygen. If not breathing, give artificial respiration. Call a physician.

Oral Exposure:

Do not induce vomiting if the internal materials of battery are swallowed. Call a physician immediately.

Most Important Symptoms/Effects, Acute and Delayed:

No data available.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

SECTION5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Suitable: Water spray or regular foam.

Specific Hazards Arising from the Chemical:

May decompose upon combustion to generate irritating, corrosive or toxic fumes. Fumes may cause dizziness or suffocation.

Special Protective Action for Fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to noninvolved personnel should be controlled around the leakage area by roping off. Remove all sources of ignition.

Environmental Precautions:

Avoid leakage getting into the earth, ditches or waters. Avoid directly releasing the washing waste-water into the environment.

Methods and Materials for Containment and Cleaning up:

If the electrolyte leaks, use soil, sand or other non-combustible materials to absorb. The leaked batteries and dirty adsorbents should be placed in metal containers.

SECTION 7 HANDLING AND STORAGE**Precautions for Safe Handling:**

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and safety gloves. Keep away from ignition sources, heat and flame. No smoking at working site. Handling is performed in a well ventilated place. Avoid disassembling the battery at will and reversing battery polarity within the battery assembly. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. If the electrolyte leaks, avoid directly contacting with eyes and skin. Avoid inhalation. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, and well-ventilated area. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents, combustible materials and corrosives. The battery must be firmly packed in inner packaging so as to effectively prevent short circuits and short circuits caused by movement. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION 8 EXPOSURE CONTROL/PPE**Control Parameters:**

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents:

Lithium cobalt oxide: Cobalt and compounds, as Co: PC-TWA 0.05 mg/m³ PC-STEL 0.1 mg/m³ Remark: G2B; Sensitization

Copper: Copper dust PC-TWA 1mg/m³; Copper smoke PC-TWA 0.2mg/m³

Aluminum metal and aluminum alloy dust: PC-TWA 3mg/m³ (total dust)

Graphite dust: PC-TWA 4mg/m³ (total dust) 2mg/m³ (inhalable dust)

Nickel metal and insoluble compounds: PC-TWA 1mg/m³ Remark: G2B

ACGIH:

Copper: TLV-TWA 1 mg (Cu)/m³, dust, mist TLV-TWA 0.2 mg (Cu)/m³, fume

Aluminum: TLV-TWA: 1 mg/m³

Graphite: TLV-TWA 2 mg/m³

Nickel: TLV-TWA 1 mg/m³

Appropriate Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Individual Protection Measures:**Eye/Face Protection:**

Wear chemical safety glasses if needed.

Skin Protection:

Hand Protection: Wear safety gloves.

Body Protection: Wear appropriate protective clothing.

Respiratory Protection:

Wear government approved respirator if needed.

Thermal Hazards:

No data available.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Silver grey aluminum foil shell
Odor:	Odorless
pH Value:	8-9
Solubility:	Partial soluble in water
Boiling Point,	No data available
Initial Boiling	
Point and Boiling	
Range:	
Melting	>300°C
Point/Freezing	
Point:	
Flash Point	No data available
(Closed Cup):	
Density/Relative	No data available
Density:	
Kinematic	No data available
Viscosity:	
Lower/Upper	No data available
Explosion	
Limit/Flammabili	
ty Limit:	
Vapour Pressure:	No data available

Relative Vapor	No data available
Density:	
Partition	No data available
Coefficient	
N-Octanol/Water(
Log Value):	
Autoignition	No data available
Temperature:	
Decomposition	No data available
Temperature:	
Particle	No data available
Characteristics:	

Flammability	No data available
(Solid, Gas):	

SECTION10 STABILITY AND REACTIVITY**Reactivity:**

No data available.

Chemical Stability:

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

Avoid misoperation, exposure to heat and open flame. Avoid mechanical or electrical abuse and overcharge.
Prevent short circuits and short circuits caused by movement.

Incompatible Materials:

Strong oxidizing agents, combustible materials and corrosives.

Hazardous Decomposition Products:

Carbon oxides, metal oxides, etc.

SECTION11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

No data available.

Skin Corrosion/Irritation:

The electrolyte in the battery causes skin irritation.

Serious Eye Damage/Irritation:

The electrolyte in the battery causes eye irritation.

Respiratory Sensitization:

No data available.

Carcinogenicity:

No data available.

Skin Sensitization:

No data available.

Germ Cell Mutagenicity:

No data available.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity -Single Exposure:

No data available.

Specific Target Organ Toxicity -Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

SECTION12 ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Disposal Methods:

The disposal of discarded battery shall comply with the requirements of relevant laws, regulations, policies and standards such as the "Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste" and "Technical Policy for the Prevention and Control of Waste Battery Pollution". Contact a licensed professional waste disposal service to dispose of wastes. Used battery being transported for disposal or reclamation should be carefully checked prior to shipment to ensure the integrity of each battery and its suitability for transport.

SECTION14 TRANSPORT INFORMATION

Only Lithium Battery during Transport:

The product has passed the test items of UN Model Regulations, Manual of Test and Criteria Section 38.3 and UN Model Regulations, SP188, 1.2m drop test. The total net weight of the Lithium batteries is less than 10 kg.

RID/ADR(2021 Edition):

The product is not subject to RID/ADR according to special provision 188. According to 2.2.9.1.7 (g) of RID/ADR(2021 Edition), Manufacturers and subsequent distributors of cells or batteries manufactured shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

IATA DGR(63rd Edition):

Proper Shipping Name: Lithium ion batteries
UN Number: UN3480
Hazard Class: 9
The product shall meet the General Requirements and section IB of Packaging Instruction 965.

According to 3.9.2.6.1(g) of IATA DGR(63rd Edition), Manufacturers and subsequent distributors of cells or batteries manufactured after 30 June 2003 shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

IMO IMDG CODE(2020 Edition):

The product is not subject to IMO IMDG Code according to special provision 188. According to 2.9.4.7 of IMO IMDG CODE(2020 Edition), Manufacturers and subsequent distributors of cells or batteries manufactured shall make available the test summary as specified in the Manual of Tests and Criteria, Part III, sub-section 38.3, paragraph 38.3.5.

SECTION15 REGULATORY INFORMATION

Domestic Regulations:

Only Lithium Battery during Transport:

Regulations Concerning Road Transportation of Dangerous Goods (JT/T 617-2018) :

UN Number: UN3480 Name and Description: Lithium ion batteries

The product has passed the test items of UN Model Regulations, Manual of Test and Criteria Section 38.3.

The product is not subject to JT/T 617-2018 according to special provision 188.

List of Dangerous Goods (GB 12268-2012) :

UN Number: UN3480 Shipping Name: Lithium ion batteries Packing Group: II

The product has passed the test items of UN Model Regulations, Manual of Test and Criteria Section 38.3.

The product is not subject to GB 12268-2012 according to special provision 188.

List of Dangerous Goods by Rail (2009 Edition) :

Number: 91013 Name of Product: Lithium batteries

International Regulations:**Directive 2006/66/EC and 2013/56/EU:**

The label, disposal and recycling of the battery shall meet the requirements of EU Directive 2006/66/EC and 2013/56/EU.

ICAO TI:

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.
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.
3. A shipper is not permitted to offer for transport more than one (1) package prepared according to Section II of PI 965 and PI 968 in any single consignment. Not more than one (1) package prepared in accordance with Section II of PI 965 and PI 968 may be placed into an overpack.
4. Packages prepared according to Section II of PI 965 and PI 968 must be offered to the operator separately from other cargo and must not be loaded into a unit load device (ULD) before being offered to the operator.

SECTION16 OTHER INFORMATION**Preparation Date:**

2022-02-24

Preparation Department:

Shanghai Research Institute of Chemical Industry Testing Co., Ltd.
Tel (Fax): +86-21-52815377/31765555

Revision:

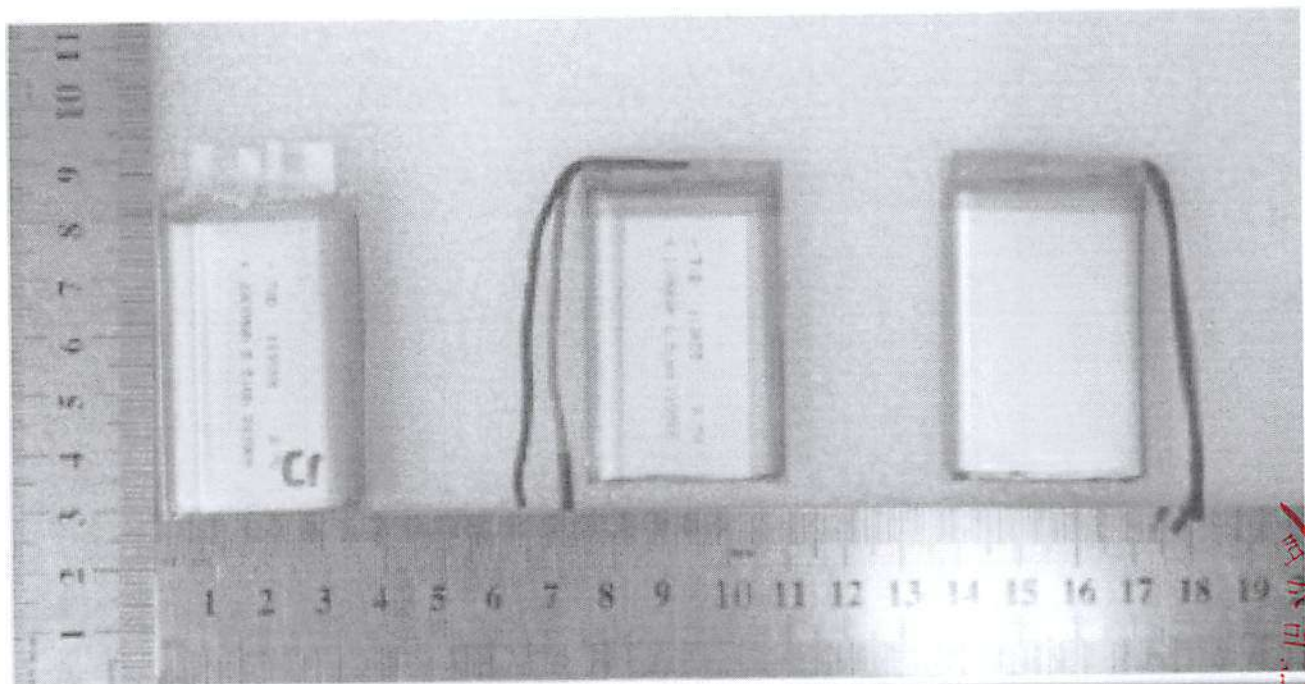
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Abbreviations and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission ACGIH: American Conference of Governmental Industrial Hygienists PC-TWA: Permissible concentration-time weighted average TLV-TWA: Time weighted average threshold limit G2B: Possibly carcinogenic to humans PC-STEL: Permissible concentration-short term exposure limit Sensitization: The substance may have allergenic effects ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations concerning the International Carriage of Dangerous Goods by Rail IMO IMDG CODE: International Maritime Organization International Maritime Code for Dangerous Goods IATA DGR: International Air Transport Association Dangerous Goods Regulations EU: European Union ICAO TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air PI:Packaging Instruction

Other Information:

This SDS is compiled based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.



上海化工院检测有限公司

- TXD 113655 3.7V
+ 2300MAh 8.51Wh 210506





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： 锂离子聚合物电池 TXD 113655 3.7V 2300mAh

Sample name: Li-ion Polymer Battery TXD 113655 3.7V 2300mAh

委托单位： 深圳市天迅达能源科技有限公司
Tianxunda Energy Technology Co., LTD

生产单位： 深圳市天迅达能源科技有限公司
Tianxunda Energy 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

NO. 212200635094000

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样品名称 Sample Name	中文 Chinese	锂离子聚合物电池 TXD 113655 3.7V 2300mAh		
	英文 English	Li-ion Polymer Battery TXD 113655 3.7V 2300mAh		
委托单位 Consignor		深圳市天迅达能源科技有限公司 Tianxunda Energy Technology Co., LTD		
生产单位 Manufacturer		深圳市天迅达能源科技有限公司 Tianxunda Energy 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		银色, 黄色双色铝塑外壳 Silvery and yellow Aluminum-plastics 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	TXD 113655	2300mAh 8.51Wh	电池单独运输 Battery only
鉴定结论 IDENTIFICATION CONCLUSION	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.			
	<div> <div>检验日期: 2022-01-18 Inspection Date:</div> <div>签发日期: 2022-01-18 Issue Date:</div> <div>生效日期: 2022-01-18 Effective Date:</div> </div>			
备注 Comment				

批准
Approver: 王军

审核
Checker: 董学胜

主检
Appraiser: 孙清



货物运输条件鉴定书

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序号 No.	检验结果及其他事项 Inspection results and other things
1	<p>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 .</p>
2	<p>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) 812100600049871 详细信息请扫描右侧二维码。 Please scan the QR code on the right for more information.</p> 
3	<p>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.</p>
4	<p>电池具有适当的防短路措施。 Cells and batteries are properly protected to prevent short circuits.</p>
5	<p>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1B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 1B 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.</p>
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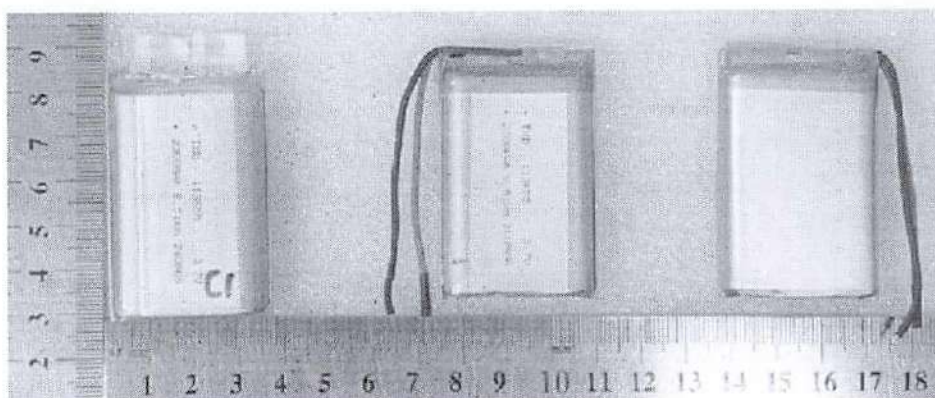


货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 212200635094000

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- TXD 113655 3.7V
+ 2300MAH 8.514V 210506



报告结束



仅限货机
CAO



NO.212200420398005



货物运输条件鉴定书

Certification
for Safe Transport of Chemical Goods

危险品

样品名称： 锂离子聚合物电池 TXD 113655 3.7V 2300mAh

Sample name: Li-ion Polymer Battery TXD 113655 3.7V 2300mAh

委托单位： 深圳市天迅达能源科技有限公司
Tianxunda Energy Technology Co.,LTD

生产单位： 深圳市天迅达能源科技有限公司
Tianxunda Energy Technology Co.,LTD



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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

NO. 212200420398005

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Certification for Safe Transport of Chemical Goods

样品名称 Sample Name	中文 Chinese	锂离子聚合物电池 TXD 113655 3.7V 2300mAh				
	英文 English	Li-ion Polymer Battery TXD 113655 3.7V 2300mAh				
委托单位 Consignor		深圳市天迅达能源科技有限公司 Tianxunda Energy Technology Co., LTD				
生产单位 Manufacturer		深圳市天迅达能源科技有限公司 Tianxunda Energy 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		银色, 黄色双色铝塑外壳 Silvery and yellow Aluminum-plastics 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	TXD 113655	2300mAh 8.51Wh	电池单独运输 Battery only	0.0438	160
鉴定结论 IDENTIFICATION CONCLUSION	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 IDENTIFICATION CONCLUSION	3. 包装要求 (Packaging requirements)					
	按包装说明965第IB部分要求办理。 The goods are packaged according to the Packaging Instruction 965 section IB.					
	仅限货机 Cargo Aircraft Only					
	<div> <div>检验日期: 2022-01-18 Inspection Date:</div> <div>签发日期: 2022-01-18 Issue Date:</div> <div>生效日期: 2022-01-18 Effective Date:</div> </div>					
备注 Comment						

批准
Approver: 王宝

审核
Checker: 董学胜

主检
Appraiser: 孙清




货物运输条件鉴定书

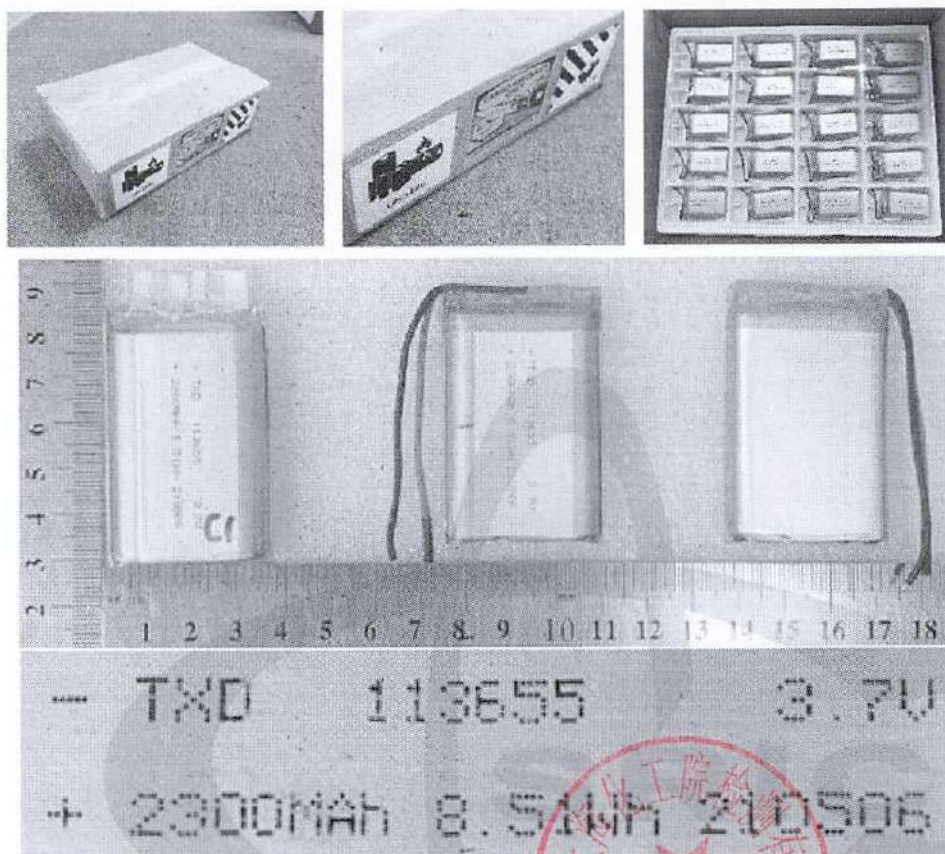
Certification for Safe Transport of Chemical Goods

NO. 212200420398005

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序号 No.	检验结果及其他事项 Inspection results and other things
1	<p>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。</p> <p>本报告所述锂电池不属于因安全原因召回的锂电池。</p> <p>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。</p> <p>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).</p> <p>Lithium cells and batteries listed in this report are not the defective cells or batteries returned to the manufacturer for safety reasons.</p> <p>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.</p>
2	<p>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。</p> <p>包装件能够承受1.2m跌落试验。</p> <p>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.</p> <p>The package has passed the 1.2m drop test.</p> <p>UN38.3试验概要编号</p> <p>The UN38.3 Test Summary No.(s)</p> <p>812100600049871</p> <p>详细信息请扫描右侧二维码。</p> <p>Please scan the QR code on the right for more information.</p> 
3	<p>锂电池完全封装在内包装内,位于坚固的刚性外包装中。</p> <p>电池具有适当的防短路措施。</p> <p>Lithium cells and batteries are packed in inner packagings that completely enclose the cell or battery and placed in a strong rigid outer packaging.</p> <p>Cells and batteries are properly protected to prevent short circuits.</p>
4	<p>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。</p> <p>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.</p>
5	<p>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。</p> <p>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。</p> <p>每个包装件必须贴有“仅限货机”标签(DGR图7.4.B)。</p> <p>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).</p> <p>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.</p> <p>Each package must be labelled with the "Cargo Aircraft Only" label(Figure 7.4.B in IATA DGR).</p>
6	<p>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%。</p> <p>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.</p>
7	<p>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。</p> <p>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).</p>
-验证码:860760-	





报告结束



UN38.3 试验概要

UN38.3 Test Summary

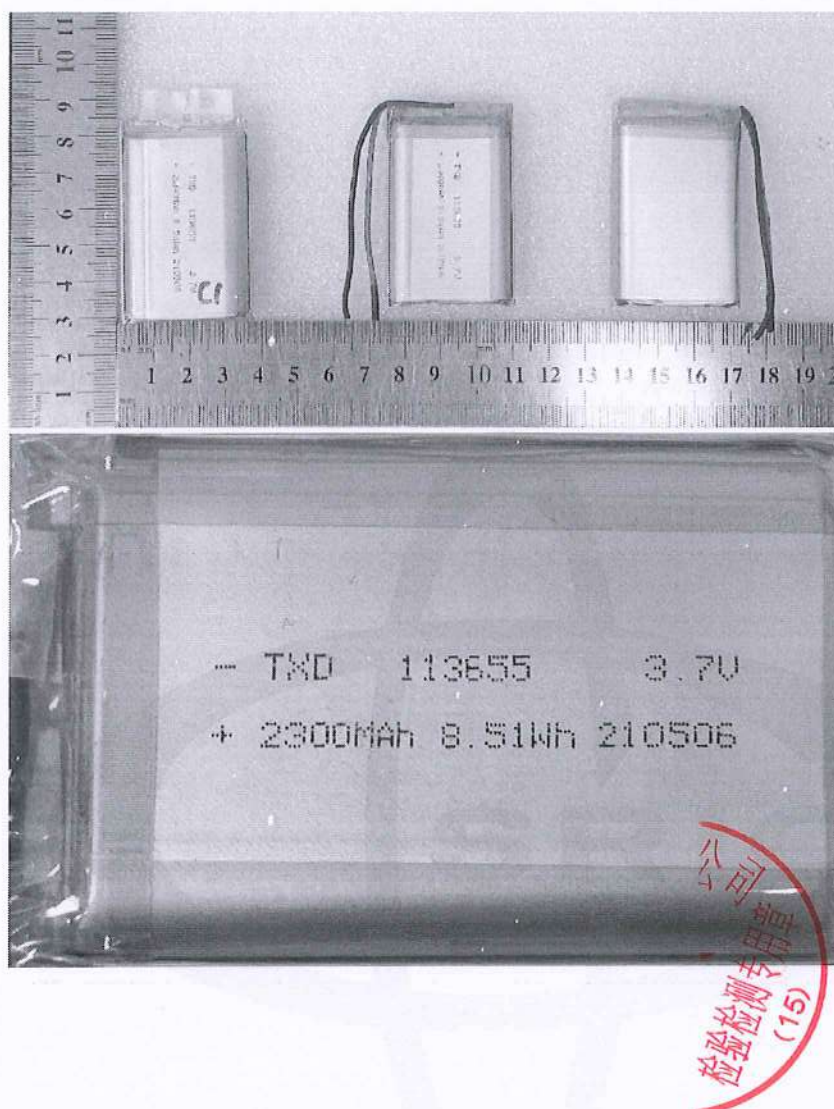




812100600049871

单位信息 Company information			
委托单位 Consignor	深圳市天迅达能源科技有限公司 Tianxunda Energy Techology Co.,LTD 深圳市光明新区街道观光路 11 号金万利工业园工业厂房 5 栋 2 楼 2F, Building 5 Industrial plants,Jin Wanli Industrial Park,No.11 guanguang Road,guangming street,gua 0755-89588160 1710158255@qq.com http://www.szlongyu688 .1688.com		
生产单位 Manufacturer	深圳市天迅达能源科技有限公司 Tianxunda Energy Techology Co.,LTD 深圳市光明新区街道观光路 11 号金万利工业园工业厂房 5 栋 2 楼 2F, Building 5 Industrial plants,Jin Wanli Industrial Park,No.11 guanguang Road,guangming street,gua 0755-89588160 1710158255@qq.com http://www.szlongyu688 .1688.com		
测试单位 Test lab	上海化工院检测有限公司 Shanghai 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	锂离子聚合物电池 Li-ion Polymer Battery	品牌 Brand	/
型号 Type	TXD 113655	原始测试型号 Original tested type	/
标称电压(V) Nominal voltage	3.7	容量/能量 Capacity/energy	2300mAh 8.51Wh
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	0.0438	外观 Appearance	银色, 黄色双色铝塑外壳 silvery and yellow aluminum-plastics shell
测试信息 Test information			
原报告编号 Original test report No.	1121060171	测试报告日期 Date of test report	2021-07-20
测试标准 Test standard	联合国《试验和标准手册》第 38.3 章 UNITED NATIONS Manual of Tests and Criteria 38.3 ST/SG/AC.10/11/Rev.7		
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 挤压 Crush	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《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 标准要求。The tested samples meet the requirements of test items of the UNITED NATIONS Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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	2021-07-27

-验证码:668027-

报告结束



NO.1121060171

检 测 报 告

Test Report

样品名称： 锂离子聚合物电池 TXD 113655 3.7V 2300mAh

Name of Sample: Li-ion Polymer Battery TXD 113655 3.7V 2300mAh

委托单位： 深圳市天迅达能源科技有限公司

Consignor: Tianxunda Energy Technology Co., LTD



上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd.

上海化工院检测有限公司 检测报告

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

NO. 1121060171

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样品名称 Name of Sample	中文 Chinese	锂离子聚合物电池 TXD 113655 3.7V 2300mAh	
	英文 English	Li-ion Polymer Battery TXD 113655 3.7V 2300mAh	
样品编号 Sample No.	1121060171		
委托单位 Consignor	深圳市天迅达能源科技有限公司 Tianxunda Energy Technology Co., LTD		
生产单位 Manufacturer	深圳市天迅达能源科技有限公司 Tianxunda Energy Technology Co., LTD		
检测方法 Test method	联合国《试验和标准手册》 ST/SG/AC.10/11/Rev.7 38.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3		
判定标准 Criterion	联合国《试验和标准手册》 ST/SG/AC.10/11/Rev.7 38.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3		
样品外观 Appearance	银色, 黄色双色 铝塑外壳 Silvery and yellow Aluminum-plastics shell		
样品接受日期 Accepted Date	2021-06-08	检测起迄日期 Test Date	2021-06-18 ~ 2021-07-19
检测项目 Test Items	高度模拟; 热测试; 振动; 冲击; 外短路; 挤压; 过充电; 强制放电 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Crush, Overcharge, Forced discharge		
检测结论 Conclusion	经检测, 该样品符合联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3标准要求。 The sample has passed the test items of UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 生效日期(Date): 2021-07-20		
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 518000

批准
Approver:
职务
Title:

王宗

副总工程师(Vice chief engineer)

审核
Checker:

陈建峰

编制
Compiler:

傅强



上海化工院检测有限公司

检测报告

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

NO. 1121060171

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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《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T1 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T1	见附表 1 See Appendix 1	合格 Passed	/
2	热测试 Thermal test	联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T2 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T2	见附表 2 See Appendix 2	合格 Passed	/
3	振动 Vibration	联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T3	见附表 3 See Appendix 3	合格 Passed	/
4	冲击 Shock	联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T4 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T4	见附表 4 See Appendix 4	合格 Passed	/
5	外短路 External short circuit	联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T5 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T.5	见附表 5 See Appendix 5	合格 Passed	/
6	挤压 Crush	联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T6 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Section 38.3 Test T.6	见附表 6 See Appendix 6	合格 Passed	/
7	过充电 Overcharge	联合国《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T7 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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《试验和标准手册》ST/SG/AC.10/11/Rev.7 38.3 试验T8 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 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℃-23℃;环境湿度:/% Ambient temperature:20℃-23℃;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

检测报告-附表1

NO. 1121060171

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序号 No.	1	检测项目名称 Name of Test Items		高度模拟 Altitude simulation				
样品 编号 Sample No.	样品状态 Sample Status	试验前 Before		试验后 After		质量损失 Mass Loss /%	剩余电压 Residual OCV /%	其他 现象 Other Event
		质量 Mass /g	开路电压 OCV /V	质量 Mass /g	开路电压 OCV /V			
001	ICYC完全充电 ICYC Fully charged	43.6027	4.17	43.5999	4.17	0.01	100.00	O
002	ICYC完全充电 ICYC Fully charged	43.0158	4.17	43.0131	4.17	0.01	100.00	O
003	ICYC完全充电 ICYC Fully charged	43.4576	4.18	43.4538	4.17	0.01	99.76	O
004	ICYC完全充电 ICYC Fully charged	43.3630	4.17	43.3594	4.17	0.01	100.00	O
005	ICYC完全充电 ICYC Fully charged	43.1496	4.18	43.1462	4.17	0.01	99.76	O
006	25CYC完全充电 25CYC Fully charged	43.2279	4.18	43.2245	4.17	0.01	99.76	O
007	25CYC完全充电 25CYC Fully charged	42.8828	4.16	42.8789	4.15	0.01	99.76	O
008	25CYC完全充电 25CYC Fully charged	43.4687	4.18	43.4662	4.17	0.01	99.76	O
009	25CYC完全充电 25CYC Fully charged	43.7014	4.18	43.6977	4.17	0.01	99.76	O
010	25CYC完全充电 25CYC Fully charged	43.7812	4.18	43.7776	4.17	0.01	99.76	O
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检测报告-附表3

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 3

NO. 1121060171

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序号 No.	3	检测项目名称 Name of Test Items		振动 Vibration				
样品 编号 Sample No.	样品状态 Sample Status	试验前 Before		试验后 After		质量损失 Mass Loss /%	剩余电压 Residual OCV /%	其他 现象 Other Event
		质量 Mass /g	开路电压 OCV /V	质量 Mass /g	开路电压 OCV /V			
001	1C1C完全充电 1C1C Fully charged	43.6017	4.10	43.6012	4.10	0.00	100.00	O
002	1C1C完全充电 1C1C Fully charged	43.0161	4.10	43.0146	4.10	0.00	100.00	O
003	1C1C完全充电 1C1C Fully charged	43.4564	4.10	43.4574	4.10	0.00	100.00	O
004	1C1C完全充电 1C1C Fully charged	43.3621	4.10	43.3608	4.10	0.00	100.00	O
005	1C1C完全充电 1C1C Fully charged	43.1487	4.10	43.1475	4.10	0.00	100.00	O
006	25C1C完全充电 25C1C Fully charged	43.2274	4.10	43.2264	4.10	0.00	100.00	O
007	25C1C完全充电 25C1C Fully charged	42.8819	4.09	42.8812	4.08	0.00	99.76	O
008	25C1C完全充电 25C1C Fully charged	43.4684	4.10	43.4674	4.10	0.00	100.00	O
009	25C1C完全充电 25C1C Fully charged	43.7008	4.10	43.6996	4.10	0.00	100.00	O
010	25C1C完全充电 25C1C Fully charged	43.7805	4.10	43.7784	4.10	0.00	100.00	O
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[illegible]

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	132.1	O
002	1CYC完全充电 1CYC Fully charged	131.1	O
003	1CYC完全充电 1CYC Fully charged	131.7	O
004	1CYC完全充电 1CYC Fully charged	129.5	O
005	1CYC完全充电 1CYC Fully charged	130.7	O
006	25CYC完全充电 25CYC Fully charged	131.2	O
007	25CYC完全充电 25CYC Fully charged	130.5	O
008	25CYC完全充电 25CYC Fully charged	134.3	O
009	25CYC完全充电 25CYC Fully charged	128.6	O
010	25CYC完全充电 25CYC Fully charged	129.1	O
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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7

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 7

NO. 1121060171

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[illegible]

上海化工院检测有限公司
检 测 报 告 - 附表8
Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report - Appendix 8

NO. 1121060171

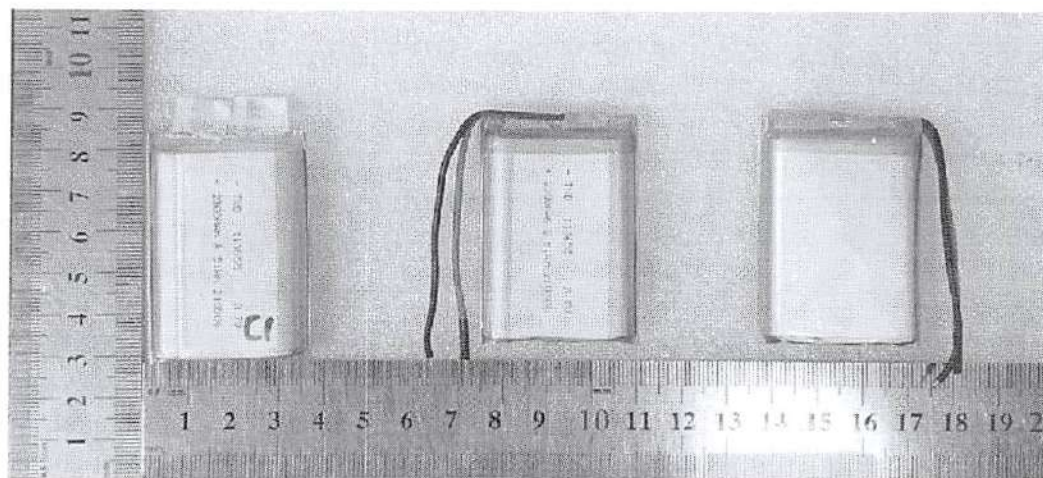
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序号 No.	8	检测项目名称 Name of Test Items	强制放电 Forced discharge
样品编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
029	1CYC完全放电 1CYC Fully discharged	O	
030	1CYC完全放电 1CYC Fully discharged	O	
031	1CYC完全放电 1CYC Fully discharged	O	
032	1CYC完全放电 1CYC Fully 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
Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix

NO. 1121060171

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报告结束