

Declaration of Lion Batteries

Declaration of LiON Batteries

The undersigned, representing the following manufacturer:

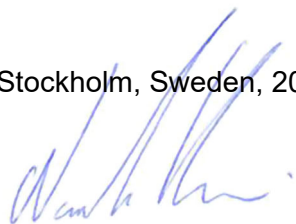
Eloflex AB
Org.No: 559071-5164
Hammarbacken 4B
191 49 Sollentuna
SWEDEN

Herewith declares that the product

LiON battery

Which is applicable to Eloflex power wheelchair model C and is a LiON battery from YongKang Fotec Electronic Technology Co LTD which is certified by IATA.

Stockholm, Sweden, 2023-01-01

A handwritten signature in blue ink, appearing to read 'Navid Khosravi'.

Navid Khosravi
CEO

UN38.3 Lithium Battery Test Report

This Test Report is valid for all Lithium batteries included in Eloflex Electrical Wheelchairs model C



This document confirms that the Lithium batteries included in the Eloflex wheelchairs meet all the demands made by IATA for transport by air of lithium batteries regards to the test UN38.3



NO.1120030343

检 测 报 告

Test Report

样品名称： 锂离子电池 Li-18650-24V-12Ah-288Wh 24V 12Ah 288Wh

Name of Sample: Lithium-ion battery Li-18650-24V-12Ah-288Wh 24V 12Ah 288Wh

委托单位： 永康飞客电子科技有限公司

Consignor: YongKang Fotec Electronic Technology Co., Ltd



上海化工院检测有限公司

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



声 明

Statement

1. 检测报告无本实验室公章（或检验检测专用章）无效。
The test report is invalid if it is not affixed the official seal of the laboratory to it.
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Copies of the test report without the official seal of the laboratory are invalid.
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5. 未经本实验室书面批准，不得部分复制检测报告。
It is forbidden to copy the test report partially without the written approval of the laboratory.
6. 送样委托检测结果，仅对所送样品有效。
The conclusion of the consignment test is only valid for the provided sample.
7. 本检测报告以中文为准，英文文本（如有）仅为译文，两者发生冲突时，应以中文文本为准。
The test report has been drafted in Chinese and translated into English (if exist) for convenience only. In the event of discrepancy, the Chinese version shall prevail.
8. 除另有说明，检测检验类别都是指委托分析。
Unless noted otherwise, the test type is consignment test.

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Address: No.345 East Yunling Road, Shanghai

传真(Fax): (021) 31015117

上海化工院检测有限公司

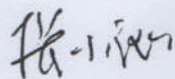
检测报告

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


NO. 1120030343

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样品名称 Name of Sample	中文 Chinese	锂离子电池 Li-18650-24V-12Ah-288Wh 24V 12Ah 288Wh		
	英文 English	Lithium-ion battery Li-18650-24V-12Ah-288Wh 24V 12Ah 288Wh		
样品编号 Sample No.	1120030343			
委托单位 Consignor	永康飞客电子科技有限公司 YongKang Fotec Electronic Technology Co., Ltd			
生产单位 Manufacturer	永康飞客电子科技有限公司 YongKang Fotec Electronic 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	黑色 塑胶外壳 Black Plastics cement shell			
样品接受日期 Accepted Date	2020-03-16	检测起始日期 Test Date	2020-03-18 ~ 2020-04-09	
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 <div style="text-align: right;">生效日期(Date): 2020-04-09</div>			
备注 Comment	可充电锂电池组 Rechargeable Lithium Battery. /			
委托单位地址 Consignor Address	/		邮政编码 Post Code	/

批准
Approver: 
职务
Title: 副总工程师 (Vice chief engineer)

审核
Checker: 

编制
Compiler: 



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. 1120030343

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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《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:21℃-23℃;环境湿度:/% Ambient temperature:21℃-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	/



中国认可
 检验
 INSPECTION
 CNAS IB0071



NO.2620040085

SAFETY DATA SHEET

Product Name: Lithium-ion battery
Li-18650-24V-12Ah-288Wh

Effective Date: 2020-04-29

Compiler: Liu Linyin

Checker: Dongxuesheng

Approver: Zhangxiangjin



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



声 明

Statement

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4. 本报告涂改无效。
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5. 本报告中的检验结论仅适用于收到的样品。
The inspection conclusion of this report only applies to the sample as received.
6. 除另有说明，检测检验类别都是指委托分析。
Unless noted otherwise, the test type is consignment test.
7. 本报告的真伪性可登入本公司网站<http://www.ghs.cn>查询
The authenticity of the report can be checked via our website: <http://www.ghs.cn>.

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YongKang Fotec Electronic Technology Co.,LTD

SAFETY DATA SHEET

Lithium-ion battery Li-18650-24V-12Ah-288Wh

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Lithium-ion battery Li-18650-24V-12Ah-288Wh
Company: YongKang Fotec Electronic Technology Co.,LTD
Address: 2F of Xinzhuoyuan Mountain Back(Hu Lingyuan's Household) in West Zhuyuan Village, Dongcheng Street, Yongkang City, Jinhua City, Zhejiang Province, 321300, P. R. China
Email: 1356727270@qq.com
Fax: 86-579-89291785
Emergency Phone: 86-579-89291786
SDS Number: 2620040085
Effective Date: 2020-04-29

SECTION2 HAZARDS IDENTIFICATION

Hazards Identification:

Class 9, miscellaneous. The battery has passed the test items of UN Model Regulations, Manual of Test and Criteria Section UN 38.3.

Emergency Overview:

Caution: Avoid contact and inhalation the electrolyte contained inside the battery.

SECTION3 INFORMATION ON INGREDIENTS

Product name: Lithium-ion battery Li-18650-24V-12Ah-288Wh

Ingredient	Concentration	CAS No.	EC No.
Anode material (Nickel Cobalt Lithium Manganate)	35%	/	/
Cathode material (Carbon)	19%	7440-44-0	231-153-3
Iron	16%	7439-89-6	231-096-4
Electrolyte (DMC/EA/EC/LiPF ₆)	12%	/	/
Copper	7%	7440-50-8	231-159-6
Aluminum	4%	7429-90-5	231-072-3
Polyethylene	3%	9002-88-4	618-339-3
Polypropylene	3%	9003-07-0	618-352-4
Nickel	1%	7440-02-0	231-111-4

SECTION4 FIRST-AID MEASURES

Skin Exposure:

If the internal battery materials of an opened battery cell come into contact with the skin, immediately flush with plenty of water.

Eye Exposure:

In case of the internal battery materials in contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation Exposure:

If inhaled the internal materials of battery, remove immediately to fresh air and seek medical attention.

Oral Exposure:

If swallowed the internal materials of battery, do not induce vomiting. Seek immediate medical attention.

SECTION5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

SECTION6 ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:

If batteries show signs of leaking, avoid skin or eye contact with the material leaking from the battery. Use chemical resistant rubber gloves and non-flammable absorbent materials for clean up. Mix with inert material (e.g. dry sand, vermiculite) and transfer to sealed container for disposal.

SECTION7 HANDLING AND STORAGE

Handling:

Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Avoid mechanical or electrical abuse. More than a momentary short circuit will generally reduce the battery service life. Avoid reversing battery polarity within the battery assembly. In case of a battery unintentionally be crushed, rubber gloves must be used to handle all battery components. Avoid contact with eyes, skin. Avoid inhalation. No smoking at working site. Materials to Avoid: Strong oxidizing agents, Corrosives.

Storage:

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Such batteries must be packed in inner packages in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits. Materials to Avoid: Strong oxidizing agents, Corrosives.

SECTION8 EXPOSURE CONTROL/PPE**Engineering Controls:**

Use ventilation equipment if available. Safety shower and eye bath.

Personal Protective Equipment:

Respiratory System: Not necessary under conditions of normal use.

Eyes: Not necessary under conditions of normal use.

Clothing: Wear appropriate protective clothing.

Hand: Safety gloves.

Other Protect:

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

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Black plastics cement shell

Odor: Odorless

Melting Point/°C: >300°C

Solubility: Partial soluble in water

SECTION10 STABILITY AND REACTIVITY**Stability:**

Stable under normal temperatures and pressures.

Conditions to Avoid:

Avoid exposure to heat and open flame. Avoid mechanical or electrical abuse. Prevent short circuits. Prevent movement which could lead to short circuits.

Materials to Avoid:

Strong oxidizing agents, Corrosives.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Metal oxides, CO, CO₂.

SECTION11 TOXICOLOGICAL INFORMATION**Toxicity Data:**

Not available.

Irritation Data:

The internal battery materials may cause irritation to eyes and skin.

SECTION12 ECOLOGICAL INFORMATION

No data available.

SECTION13 DISPOSAL CONSIDERATION**Appropriate Method of Disposal of Substance:**

Lithium batteries are best disposed of as a non-hazardous waste when fully or mostly discharged. Contact a licensed professional waste disposal service to dispose of large quantities materials.

SECTION14 TRANSPORT INFORMATION

Only Lithium-ion
Battery during
transport:

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

IATA DGR (61th
Edition) :

Proper Shipping Name: Lithium ion batteries
UN Number: UN3480
Hazard Class: 9

The product shall meet the General Requirements and section IA of Packaging Instruction 965. According to 3.9.2.6.1(g) of IATA DGR (61th 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(2018
Edition) :

Proper Shipping Name: Lithium ion batteries
UN Number: UN3480
Hazard Class: 9
EmS No. : F-A, S-I

According to 2.9.4.7 of IMDG Code(2018 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.

Li-ion Battery
contained in
W5515 POWER
WHEELCHAIR during
transport:

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

IATA DGR (61th
Edition) :

Proper Shipping Name: Battery powered vehicle
UN Number: UN3171
Hazard Class: 9

According to 3.9.2.6.1(g) of IATA DGR (61th 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(2018
Edition) :

Proper Shipping Name: Battery powered vehicle
UN Number: UN3171
Hazard Class: 9
EmS No. : F-A, S-I

According to 2.9.4.7 of IMDG Code(2018 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

ICAO:

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

Date:

2020-04-29

Department:

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

Revision:

0

Other Information:

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永康飞客电子科技有限公司
Yongkang Feiketechnology Co., LTD

UN38.3 MSDS CE

型号Model: Li-18650-24V-12Ah-240Wh
 标称电压Standard voltage: 24V
 标称容量Nominal capacity: 12Ah

