



ATTO Battery- Flight Safety Certificates

No.	Document	Standard	Dated
3	IECEE TEST REPORT	IEC 62133	10 OCT 2015
4	MA BATTERY SAFETY CERTIFICATES	UN 38.3	19 AUG 2015
5	MA BATTERY TRANSPORT CERTIFICATES	UNUN8.3	19 AUG 2015

For more information:

www.movinglife.com

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CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product : Rechargeable Li-ion Battery
Produit :

Name and address of the Applicant : China
Nom et adresse du demandeur :

Rating and principal characteristics : 48 Vdc, 5200 mAh, 249,6 Wh
Valeurs nominales et caractéristiques principales :

Trademark (if any)
Marque de fabrique (si elle existe)

Type of manufacturer's Testing Laboratories used
Type de programme de laboratoire d'essais constructeur

Model / Type Ref. : BT25
Réf. de type :

Additional information (if necessary may also be reported on
page 2)
Les informations complémentaires (si nécessaire, peuvent être
indiquées sur la 2ème page)

A sample of product was tested and found to be in conformity
with IEC : 62133(ed.2)
Un échantillon de ce produit a été essayé et été considéré
conforme à la CEI

As shown in the test report Ref. No. which forms part of this
certificate : 3174113.50
Comme indiqué dans le rapport d'essais numéro de référence
qui constitue partie de ce certificat

This CB Test Certificate is issued by the National Certification Body:

Ce Certificat d'essai OC est établi par l'Organisme National de Certification

DEKRA Certification B.V.
Meander 1051, 6825 MJ
Arnhem
The Netherlands



Date: 2015-10-12

Signature: Vicky Zhang



2014002938Z

华南国家计量测试中心
广东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY



检测报告

TEST REPORT

证书编号 DCW201504028
Certificate No.

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委托方
Client

委托方地址
Add. of Client

样品名称 可充电锂离子电池
Description Rechargeable Li-ion Battery

型号规格 BT25
Model/Type

制造厂
Manufacturer

出厂编号 1#~41#
Serial No.

设备编号
Equipment No.

接收日期 2015 年 08 月 19 日
Date of Receipt Y M D

结论 见检测结果页
Conclusion Shown in the results of test report

检测日期 2015 年 08 月 19 日
Date of Test Y M D

批准人
Approved Signatory

核 验
Inspected by

检 测
Tested by

证书专用章
Stamp



本中心地址: 中国广州市广园中路松柏东街30号 邮政编码: 510405
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Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 Complaint Tel: (8620)26296063
证书真伪查询: www.scm.com.cn; www.mtsp.com Certificate Authenticity Identify: www.scm.com.cn; www.mtsp.com



2014002938Z

华南国家计量测试中心
广东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY



检测
CNAS L0730

检测结果

RESULTS OF TEST

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I Basic information 基本信息

Sample name 样品名称	Rechargeable Li-ion Battery 可充电锂离子电池	Type 型号规格	BT25
Nominal voltage 标称电压	48 V	Rated capacity 额定容量	5200mAh 249.6Wh
Limited charge voltage 限制充电电压	54.6 V	Trade mark 商标	----
Shape 样品外观	Prismatic 菱形	Size (L×W×T) 尺寸(L×W×T)	(285.7×124.8×80.9)mm
Test item 检测项目	Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Impact/Crush, Overcharge, Forced discharge 高度模拟, 热冲击, 振动, 机械冲击, 外部短路, 重物冲击/挤压, 过充电, 强制放电		
Test reference 检测依据	<i>Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria, Part III, subsection 38.3. (ST/SG/AC.10/11/Rev.5 Amendment 1 and Amendment 2)</i> 《关于危险货物运输的建议书: 试验和标准手册》第III部分第38.3节。(ST/SG/AC.10/11/Rev.5 修订版1和修订版2)		
Test conclusion 检测结论	The battery samples pass all of the requirement test items. 经检测, 全部检测项目符合要求。 本次检测结论为合格。		
Remark 备注	----		



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CNAS
L0730

检测结果

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II Photos of the Sample 样品照片 Battery 电池



Cell 电芯





货物运输条件鉴定书

CERTIFICATE FOR SAFE TRANSPORT OF GOODS

鉴定书编号 DCW201504029
Certificate No.

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委托方
Client

委托方地址
Add. of Client

样品名称 可充电锂离子电池
Description Rechargeable Li-ion Battery

型号规格 BT25
Model/Type

制造厂
Manufacturer

样品编号 1#
Serial No.

接收日期 2015 年 08 月 19 日
Date of Receipt Y M D

鉴定日期 2015 年 08 月 19 日
Date of Certificate Y M D

批准人
Approved Signatory

核 验
Inspected by

检 查
Censored by

[Signature]

[Signature]

[Signature]





声 明

鉴定书编号: DCW201504029
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Statement

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1. 本中心是国家质量监督检验检疫总局在华南地区设立的国家法定计量检定机构, 本中心质量管理体系符合ISO/IEC 17020:2012标准的要求。
This laboratory is the National Legal Metrological Verification Institution in southern China set up by the General Administration of Quality Supervision. The quality system is in accordance with ISO/IEC 17020:2012.
2. 本中心所出具的数据均可溯源至中国计量基准和国际单位制(SI)。
All data issued by this laboratory are traceable to national primary standards and International System of Units(SI).
3. 鉴定书无广东省计量科学研究院检查报告专用章无效。
The certification is invalid if it is not affixed the official certification seal of Guangdong Institute of Metrology.
4. 未经本机构许可, 不得部分复制、摘用本鉴定报告书内容。
This report shall not be reproduced except in full, or extracted, without the written approval of our laboratory.
5. 鉴定书无检查、核验、批准人签字无效。
The certification is invalid without the signature of Censor, Inspector and Approved Signatory.
6. 鉴定书涂改无效。
The certification is invalid if it is blotted out.
7. 客户必须如实提供样品及资料, 并保证申报品名和样品与运输货物相同, 否则本单位不承担任何相关责任。
The client should provide samples and relevant data, at the same time, they should guarantee the consistence of the product's name they declared, the samples they provided and the goods to be transported. Otherwise we will not bear any relevant responsibilities.
8. 本鉴定书的鉴定结论仅对客户所送样品负责。
The conclusion of this certification is responsible for the sample provided by the client.
9. 本鉴定书当年有效。
The certification is valid in the year subscribed on it.
10. 本鉴定书不考虑国家及经营人差异。
The certification takes no account of the State and Operator Variations.



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一、本次鉴定的技术依据:

Reference documents for the certificate:

IATA (56th)-2015 危险品规则 (56版) Dangerous Goods Regulations (56th)

二、本次鉴定所使用的主要计量标准器具:

Major standards of measurement used in the certificate:

设备名称/型号 Name of Equipment /Model	编号 Serial No.	证书号/有效期 Certificate No. /Due Date	计量特性 Metrological Characteristic
电子天平 /TC20KB	332014010050	LZT201404755 /2015-11-18	Ⓜ级 Class Ⓜ
钢卷尺 Steel Tape /5 m	D1	CDL201502675 /2016-05-20	II级 Grade II

三、鉴定地点、环境条件:

Place and environmental conditions of the certificate:

地点 Place	本院电磁实验 室 (Electrics-magnetics Lab)	温度 Temperature	(20±5) °C	相对湿度 R.H.	(40~70) %
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检查结果

RESULTS OF CERTIFICATION

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四. 鉴定结果/说明:

Results of certificate and additional explanation:

样品名称 Name of goods	可充电锂离子电池 Rechargeable Li-ion Battery	样品型号 Type	BT25
标称电压 Nominal voltage	48 V	额定容量 Rated capacity	5200mAh 249.6Wh
样品外观 Appearance	菱形 Prismatic	样品尺寸 Size(L×W×T)	(285.7×124.8×80.9) mm
包装件重量 Packaging weight	9.3kg	包装件尺寸(L×W×T) Packaging dimensions	(365×272×308) mm
内含电池数量 Battery number	4/包装件 4/packing	本鉴定书的有效期 The period of this certification	2015-12-31
鉴定结论 Certification	<p>1. 该样品为锂离子/聚合物电池, 已通过 UN38.3 测试。 This sample is lithium ion/polymer battery. This battery sample is proved to meet the Requirements tests in the UN <i>Manual of Tests and Criteria</i>, Part III, subsection 38.3.</p> <p>2. 根据 IATA DGR 规定, 本品受 DGR 包装说明 965 第 IA 章节限制, 属于第 9 类危险品。UN 编号为: UN3480 According to IATA DGR, this product is restricted to IATA DGR packing Instruction 965 Section IA, and belongs to Class 9 of dangerous goods. UN number: UN3480</p> <p>3. 其包装件须满足 DGR 包装说明 5.0.2 的一般包装要求和 II 级包装性能标准。 The package must meet the Packing Requirements of 5.0.2 and Packing Group II performance standards.</p>		



检查结果

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本鉴定书依据的
检测报告信息
Reference test
reports for this
certificate report.

鉴定机构: 广东省计量科学研究院
锂电池 UN38.3 检测报告号: DCW201504028
Certificate laboratory: Guangdong Institute of Metrology
Lithium ion battery UN38.3 Test Report number: DCW201504028

备注
Comment

1. 电池和电芯必须包装在完全封装的内包装中然后再装进坚固的外包装中。
Cells and batteries must be placed in inner packagings that completely enclose the cell or battery then placed in an outer packaging.
2. 每块电池必须配置安全排气装置, 或者在正常运输条件下其设计本身可防止爆裂, 并采用有效预防外部短路的方法进行装配。为阻挡危险性反向电流, 每个含有电池芯或多个并联电池芯的电池应采用有效的方法进行装配。
Each battery must be incorporated a safety venting device or be designed to preclude a violent rupture under conditions normally incident to transport and be equipped with an effective means of preventing external short circuits. Each battery containing cells or series of cells connected in parallel must be equipped with an effective means, as necessary, to prevent dangerous reverse current flow.
3. 每个包装件必须贴有第9类危险品标签。货机运输的每个包装件电池净重不能超过35kg, 客机运输不能超过5kg。
Each package must be labeled with a Class 9 label. The limit net quantity of each package for Cargo Aircraft is 35kg, and 5kg on Passenger.



检查结果

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样品照片 Photos of the Sample :

电池 Battery



包装件 Package



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