

UN 38.3 Lithium Battery Test Summary

Cell, Battery or Product Model Number	
Item Number:	
Item Name:	Li-ion Battery

Cell, battery, or product manufacturer's contact information			
Name: Guangdong Mic-power New Energy Co., Ltd			
Address: 4 Xingju West Rd Dongxing District Dongjiang High-Tech Industrial Park, Zhongkai High-tech Zone Huizhou, Guangdong			
City: Huizhou	State: Guangdong	ZIP: 516055	Country: China
Telephone: 0752-3315939	E-mail: pujianlin@mic-power.cn	Website:	

Test Laboratory			
Name: Attestation of Global Compliance (Shenzhen) Co.,Ltd			
Address: 2/F Building 2 ,No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu,Xixian Baoan District ,Shenzhen			
City: Shenzhen	State: Guangdong	ZIP: 518102	Country: China
Telephone: 18138297015	E-mail: /	Website: /	

Cell or Battery Description				
Cell or Battery: Battery		Physical Description (dimensions, appearance):		
Cell or Battery Type: Li-ion Battery M1254		S304 stainless steel shell		
Watt-hour rating or Lithium Content: 0.222Wh				
Completed Cell or Battery Weight: 1.835g				
Unique Test Report ID Number: AGC05805181002UA01		Date of test report: 2018.10.16-2018.11.05		
List of Tests Completed:				
Yes	No	Pass	Fail	Additional Comments (or indicate compliance with other standards, e.g., Underwriters Laboratory):
Yes		Pass		Not Applicable
Yes		Pass		
Yes		Pass		
Yes		Pass		Not Applicable
Yes		Pass		
Yes		Pass		
Yes		Pass		Sixth Edition
Yes		Pass		
Yes		Pass		Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto, if any:

Signature with name and title of signatory as an indication of the validity of information provided: Michael Laboratory Engineer Date: 2019.12.9



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Item Name: **Li-ion Battery**

Cell, battery, or product manufacturer's contact information

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Address: 4 Xingju West Rd Dongxing District Dongjiang High-Tech Industrial Park, Zhongkai High-tech Zone Huizhou, Guangdong

City: **Huizhou** State: **Guangdong** ZIP: **516055** Country: **China**Telephone: **0752-3315939** E-mail: **pujianlin@mic-power.cn** Website:

Test Laboratory

Name: **Attestation of Global Compliance (Shenzhen) Co.,Ltd**

Address: 2/F Building 2 ,No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu,Xixian Baoan District ,Shenzhen

City: **Shenzhen** State: **Guangdong** ZIP: **518102** Country: **China**Telephone: **18138297015** E-mail: / Website: /

Cell or Battery Description

Cell or Battery: **Battery**

Physical Description (dimensions, appearance):

Cell or Battery Type: **Li-ion Battery M1454**Watt-hour rating or Lithium Content: **0.333Wh****S304 stainless steel shell**Completed Cell or Battery Weight: **2.46g**Unique Test Report ID Number: **AGC05805190302UA01**Date of test report: **2019.03.27-2019.04.15**

List of Tests Completed:

Yes	No		Pass	Fail	Additional Comments (or indicate compliance with other standards, e.g., Underwriters Laboratory):
Yes		Test T.1: Altitude simulation	Pass		Not Applicable
Yes		Test T.2: Thermal test	Pass		
Yes		Test T.3: Vibration	Pass		
Yes		Test T.4: Shock	Pass		Not Applicable
Yes		Test T.5: External short circuit	Pass		
Yes		Test T.6: Impact/Crush	Pass		Reference to assembled battery testing requirements, if applicable (i.e., 38.3.3 (f) and 38.3.3 (g)).
Yes		Test T.7: Overcharge	Pass		Sixth Edition
Yes		Test T.8: Forced discharge	Pass		

Signature with name and title of signatory as an indication of the validity of information provided:

Michael Laboratory Engineer





Supplier's Test Summary

in accordance with UN Manual of Tests and Criteria
Part III, subsection 38.3

Information about the manufacturer

Name VARTA Microbattery GmbH
 Address Daimlerstrasse 1
 73479 Ellwangen
 Germany
 Phone +49 7961 921-0
 E-mail info@varta-microbattery.com
 Website www.varta-microbattery.com

Description of the product

Type Lithium ion cell
 Physical description Rechargeable lithium ion button cell

Product test information

Each object of this declaration has been tested and was found to be compliant with the UN Manual of Test and Criteria, Part III, subsection 38.3. This includes all single cells and battery assemblies containing not more than one cell of those given in the following list.

Model	Mass	Wh rating	Edition of the manual of test and criteria ST/SG/AC.10/11	Test report number	Test report date
CP1254A3	1.6 g	0.2 Wh	Rev. 5 Amend. 2 (2013)	1116080184	2016-10-18

List of tests conducted and results

Test Item	Test Result	Test Item	Test Result
T1. Altitude simulation	pass	T5. External short circuit	pass
T2. Thermal test	pass	T6. Crush	pass
T3. Vibration	pass	T7. Overcharge	N/A
T4. Shock	pass	T8. Forced Discharge	pass

Test laboratories

The tests were performed by the following test laboratory.

Name	Shanghai Research Institute of Chemical Industry (SRICI) Testing Centre
Address	No. 345 Yunling East Road, Pudong Shanghai 200062 China
Phone	+86 21-52569800
E-mail	msds123@gmail.com
Website	www.ghs.cn

Additional information

In original VARTA packaging the products comply with the following special provisions of international transport regulations:

- IATA DGR: Packing Instruction 965 Section IB (max. 30 % state of charge)
(Transportations of cells or batteries packed with equipment or contained in equipment have to follow Packing Instructions 966 or 967 Section II.)
- ADR/RID/ADN/IMDG Code: Special Provision 188
- DOT / 49 CFR: §173.185 (c)

The products have been manufactured under a quality management program according to IATA DGR clause 3.9.2.6.1 (e), ADR clause 2.2.9.1.7 e), and IMDG code clause 2.9.4.5.

Ellwangen, 2019-06-04

(place and date of issue)

VARTA Microbattery GmbH
Daimlerstrasse 1
D-73479 Ellwangen
Germany



(company stamp)

i. A. 

Dr. Sebastian Röhler
Manager Product Compliance

(signature)



Supplier's Test Summary

in accordance with UN Manual of Tests and Criteria
Part III, subsection 38.3

Information about the manufacturer

Name VARTA Microbattery GmbH
 Address Daimlerstrasse 1
 73479 Ellwangen
 Germany
 Phone +49 7961 921-0
 E-mail info@varta-microbattery.com
 Website www.varta-microbattery.com

Description of the product

Type Lithium ion cell
 Physical description Rechargeable lithium ion button cell

Product test information

Each object of this declaration has been tested and was found to be compliant with the UN Manual of Test and Criteria, Part III, subsection 38.3. This includes all single cells and battery assemblies containing not more than one cell of those given in the following list.

Model	Mass	Wh rating	Edition of the manual of test and criteria ST/SG/AC.10/11	Test report number	Test report date
CP1454A3	2.3 g	0.3 Wh	Rev. 5 Amend. 2 (2013)	1116050015	2016-06-07

List of tests conducted and results

Test Item	Test Result	Test Item	Test Result
T1. Altitude simulation	pass	T5. External short circuit	pass
T2. Thermal test	pass	T6. Crush	pass
T3. Vibration	pass	T7. Overcharge	N/A
T4. Shock	pass	T8. Forced Discharge	pass

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Additional information

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- IATA DGR: Packing Instruction 965 Section IB (max. 30 % state of charge)
(Transportations of cells or batteries packed with equipment or contained in equipment have to follow Packing Instructions 966 or 967 Section II.)
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The products have been manufactured under a quality management program according to IATA DGR clause 3.9.2.6.1 (e), ADR clause 2.2.9.1.7 e), and IMDG code clause 2.9.4.5.

Ellwangen, 2019-06-04

(place and date of issue)

VARTA Microbattery GmbH
Daimlerstrasse 1
D-73479 Ellwangen
Germany



(company stamp)

i. A. 

Dr. Sebastian Röhler
Manager Product Compliance

(signature)

UN 38.3 Lithium Battery Test Summary

Cell, Battery or Product Model Number

Item Number:

Item Name: Li-ion Battery AHB651935HPJ 3.8V 450mAh 1.8Wh

Cell, battery, or product manufacturer's contact information

Name: Kunshan SYnergy ScienTech Co.,Ltd

Address: No.688, Nanhe Road, Economic&Technical Development Zone, Kunshan, Jiangsu

City: KunShan

State: Jiangsu

ZIP: 215300

Country: China

Telephone: +86-512-57710688

E-mail: hmsong@synst.com.cn

Website: http://www.synst.com.cn

Test Laboratory

Name: The laboratory for UN38.3 of Kunshan SYnergy ScienTech Co.,Ltd

Address: 688# Nanhe Road Kunshan

City: KunShan

State: Jiangsu

ZIP: 215300

Country: China

Telephone: +86-0512-57710688-3411

E-mail: alice@synst.com.cn

Website: http://www.synst.com.cn

Cell or Battery Description

Cell or Battery: Battery		Physical Description (dimensions, appearance):		
Cell or Battery Type: AHB651935HPJ		Silvery aluminum-plastics shell		
Watt-hour rating or Lithium Content: 1.8Wh				
Completed Cell or Battery Weight: Approx. 8.7g				
Unique Test Report ID Number: UN18122401		Date of test report: 2018-12-25~2019-01-23		
List of Tests Completed:				
Yes	No	Pass	Fail	Additional Comments (or indicate compliance with other standards, e.g. Underwriters Laboratory):
Yes		Test T.1: Altitude simulation	Pass	Not Applicable
Yes		Test T.2: Thermal test	Pass	
Yes		Test T.3: Vibration	Pass	
Yes		Test T.4: Shock	Pass	Not Applicable
Yes		Test T.5: External short circuit	Pass	
Yes		Test T.6: Impact/Crush	Pass	Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto, if any:
Yes		Test T.7: Overcharge	Pass	
Yes		Test T.8: Forced discharge	Pass	

Signature with name and title of signatory as an indication of the validity of information provided:

何同强 laboratory engineer

Date:

2019-11-7



Test Summary 测试汇总		
(a)	Product manufacturer 产品制造商	Huizhou Everpower Technology Co., Ltd. 惠州市恒泰科技股份有限公司
(b)	Contact information of manufacturer 制造商联系信息	Address: NO.2 Building, NO.55 District, Zhongkai Hi-Tech Zone, Huizhou City, Guangdong Province, P.R.China 地址: 惠州市仲恺高新区55号区厂房2 Phone number 电话号码: +86 15013991935 Email 电子邮件: lulm@htkjbattery.com Website 网址: None
(c)	Information of test laboratory 测试实验室信息	Shenzhen NTEK Testing Technology Co., Ltd. 深圳市北测检测技术有限公司 Address: 1/F, Building C, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China 地址: 深圳市宝安区西乡三围奋达科技园 C 栋 1 楼 Tel 电话: +86-755-6115 6588 Fax 传真: +86-755-6115 6599 E-mail 邮箱: Kevin@ntek.org.cn Website 网址: http://www.ntek.org.cn
(d)	Report Ref. No. 报告编号	S19051703101001-R1
(e)	Date of issue 签发日期	2019-12-06
(f)	Description of product 产品描述	Name 名称: Rechargeable Li-ion Battery 可充电锂离子电池 Model 型号: PL661935V Rating 额定: 3.8V 450mAh 1.71Wh Mass 质量: 8g Appearance 外观: Silvery and Prismatic 银色、棱柱形
(g)	Test items and results 测试项目及结果	Test T.1-Altitude simulation / 高度模拟 Pass 合格 Test T.2-Thermal Test / 温度试验 Pass 合格 Test T.3-Vibration / 振动 Pass 合格 Test T.4-Shock / 冲击 Pass 合格 Test T.5-External short circuit / 外部短路 Pass 合格 Test T.6- Crush / 挤压 Pass 合格 Test T.7-Overcharge / 过度充电 Pass 合格 Test T.8-Forced discharge / 强制放电 Pass 合格
(h)	Assembled battery testing requirements 组装电池组测试要求	Not applicable 不适用
(i)	Revised edition of the Manual of Tests and Criteria 试验和标准手册修订版本	Rev.6/Amend.1 第六修订版修正 1
(j)	Name and title 姓名和职位	Lamei Lu/Certified engineer 卢腊梅/认证工程师 