



海运 By Sea

货物运输测试报告

Cargo Transportation Test Report

非限制性货物

Non-restricted Goods

| | |
|----------------|--|
| 样品名称 | 锂离子电池 ICR18650 |
| (Samples) | Li-ion Battery ICR18650 |
| 委托单位 | 深圳市冠力达电子有限公司 |
| (Client) | Shenzhen Guanlida Electronics Co., Ltd |
| 生产单位 | 深圳市冠力达电子有限公司 |
| (Manufacturer) | Shenzhen Guanlida Electronics Co., Ltd |

P O N Y 谱尼测试
Pony Testing International Group

No.: H03133033011D
Code: g77c62

www.ponytest.com

注: 本电子版本用于客户校对确认。最终内容请以正式报告为准。

Report in electronic version is only for client's preview and reference. For confirmative content, formal test report shall prevail.

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| | | | |
|---|---|--------------------|-----------------|
| 样品名称 Name & Model | 锂离子电池 ICR18650 Li-ion Battery ICR18650 | | |
| 委托单位 Applicant | 深圳市冠力达电子有限公司 Shenzhen Guanlida Electronics Co., Ltd | | |
| 公司地址 Address | 深圳市宝安区西乡街道 62 区安圣工业城 4 楼 Baoan District of Shenzhen City Xixiang Street, 62 District, Ansheng Industrial City on the fourth Floor. | | |
| 样品外观及性状 Appearance & Odor | 蓝色电池，标称电压为 3.7V，额定电容量为 2200mAh，电能为 8.14 瓦特时。 Blue battery. Nominal voltage is 3.7V, Rated capacity is 2200mAh, and Electric energy is 8.14Wh. | | |
| 货物主要危险性 Main Hazards | 化学物质包含在密封电池外壳内。当电池机械破损时会产生危害。遇火会引起爆炸。 These chemicals are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused. If in fire, battery may cause to explode. | | |
| 接样日期 Accepting Date | 2013 年 3 月 9 日 | 签发日期 Issue Date | 2013 年 3 月 29 日 |
| 测试结果(Conclusion) | | | |
| 1、危险性识别(Hazard identification): ①电能=8.14 瓦特时。 ②经测试证明其符合《关于危险货物运输的建议书-试验和标准手册》第 3 部分 38.3 款的所有要求。 ③装在仪器设备中运输，不需要做 1.2 米跌落测试。 ④电池需互相隔开以防短路，并装放在结实的容器里，防止意外短路。 ①Electric energy=8.14Wh. | | | |

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②Test proves that this type of battery pass the UN38.3 test.

③Transport installed in equipment, 1.2m drop test is not needed.

④Batteries are separated so as to prevent short circuits and are packed in strong packaging.

2、建议比照办理的类项和编号(Suggestion according to IMDG):

可按非限制性货物条件办理。

The goods are not subject to IMDG.

3、包装要求(Packaging requirements):

参照 IMDG 特殊规定 188。

The goods are packaged according to the special provision 188 of IMDG.

| | |
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| 参考方法 Reference method | <p>1) 《联合国关于危险品运输建议书——规章范本》(17th);</p> <p>2) 《国际海运危险货物规则》;</p> <p>3) 该物质的 UN38.3 报告 (H03133032521D, H03133032521D~1)。</p> <p>1) <<Recommendations On The Transport Of Dangerous Goods-Model Regulations>>(17th);</p> <p>2) << International Maritime Dangerous Goods >>;</p> <p>3) The UN38.3 test report (H03133032521D, H03133032521D~1).</p> |
| 备注 Remark | <p>适用于海运。</p> <p>Be applicable to transport by sea.</p> |

主检人 : 刘海清 审核人 : 汪志敏 批准人 : 李强
(Prepared by) (Checked by) (Approved by)

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| 试验项目和名称 Name Of Test Items | 试验结果 Test Result |
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| 高度模拟 Altitude simulation (38.3 test 1) | 无渗漏、无排气、无解体、无破裂和无起火, 并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的 90%。试验符合标准要求。 No mass loss, no leakage, no venting, no disassembly, no rupture and no fire. the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The test result conforms to the requirement of standard. |
| 温度试验 Thermal test (38.3 test 2) | 无渗漏、无排气、无解体、无破裂和无起火, 并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的 90%。试验符合标准要求。 No mass loss, no leakage, no venting, no disassembly, no rupture and no fire. the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The test result conforms to the requirement of standard. |
| 振动 Vibration (38.3 test 3) | 无渗漏、无排气、无解体、无破裂和无起火, 并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的 90%。试验符合标准要求。 No mass loss, no leakage, no venting, no disassembly, no rupture and no fire. the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The test result conforms to the requirement of standard. |
| 冲击 Shock (38.3 test 4) | 无渗漏、无排气、无解体、无破裂和无起火, 并且每个试验电池或电池组在试验后的开路电压不小于其在进行这一试验前电压的 90%。试验符合标准要求。 No mass loss, no leakage, no venting, no disassembly, no rupture and no fire. the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The test result conforms to the requirement of standard. |
| 外短路 External short circuit (38.3 test 5) | 外壳温度不超过 170℃, 并且在试验过程中及试验后 6 小时内无解体, 无破裂, 无起火。试验符合标准要求。 The external temperature does not exceed 170 °C and there is no disassembly, no rupture and no fire during the test and within six hours after the test. The test result conforms to the requirement of standard. |
| 挤压 Crush (38.3 test 6) | 外壳温度不超过 170℃, 并且在试验过程中及试验后 6 小时内无解体, 无破裂, 无起火。试验符合标准要求。 The external temperature does not exceed 170 °C and there is no disassembly, no rupture and no fire during the test and within six hours after the test. The test result conforms to the requirement of standard. |
| 过度充电 Overcharge (38.3 test 7) | --- |
| 强制放电 Forced discharge (38.3 test 8) | 在试验过程中和试验后 7 天内无解体, 无起火。试验符合标准要求。 There is no disassembly and no fire during the test and within seven days after the test. The test result conforms to the requirement of standard. |

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| 项目 Item | 测试结果 Conclusion |
|-----------------------------|---|
| 爆炸危险性 Explosive Danger | 资料和成份结构显示不属于爆炸品。 The data and components structure indicate the article does not belong to explosive. |
| 易燃危险性 Flammable Danger | 不属于易燃类物质。 It does not belong to flammability substance. |
| 氧化危险性 Oxidizing Danger | 不能加速纤维素的燃烧，不属于氧化性物质。 The screening tests indicate the article does not belong to oxidizing solid because it can not make fibrin accelerate burning rate. |
| 毒害危险性 Toxic Danger | 口服毒性小，不属于毒性物质。 The oral toxicity is low, so it does not belong to toxic article. |
| 放射危险性 Radioactive Danger | 资料显示无放射性危害。 The data indicates the article has no radioactivity. |
| 腐蚀危险性 Corrosive Danger | 对碳钢、铝金属无腐蚀性，不属于腐蚀性物质。 The article can not corrupt steel, aluminum, so it has no corrosive. |
| 其它危险性 Other Danger | 正常使用下，无刺激性、麻醉性及其它危险性。 In normal situation, no narcotic, irritating and other hazards. |

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