



深圳市冠力达电子有限公司
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聚合物锂离子电池检验标准

Lithium Polymer Battery Inspection Standard

前言

本标准按照《中华人民共和国国家标准 GB 31241-2014》-<便携式电子产品用锂离子电池和电池组安全要求>给出的规则，选取第 4 条、第 5 条、第 6 条、第 7 条中的相关项目起草本标准。

This standard is based on the rules given in the "National Standard of the People's Republic of China GB 31241-2014"-"Safety Requirements for Lithium Ion Batteries and Battery Packs for Portable Electronic Products", and select Article 4, Article 5, Article 6, and Article 7 The relevant items in the drafting of this standard.

1. 适用范围：Scope

本检验标准描述了可充电锂离子聚合物电池的产品性能指标。

This inspection standard describes the product performance indicators of rechargeable lithium-ion polymer batteries.

2. 产品规格SPECIFICATION

2.1 基本性能 BASIC PERFORMANCE

NO.	项目 Item	Characteristics特性	行业误差标准 Industry Error Standard
1	标称容量 Nominal capacity	0.2C 放 电 discharge	±10%
	最小容量 Maximum capacity	0.2C 放电，最小容量的 90% 0.2C discharge,90% of minimum capacity	/
2	标称电压Nominal Voltage	3.7V	/
3	充电限制电压 Charging limit voltage	4.2V	±5mv
4	放电截止电压 Discharge cut-off voltage	2.75V	±5mv

5	充电电流 recharging current	标准充电： 0.2C Standard charging: 0.2C 快速充电： 1C Fast charging: 1C	/
6	标准充电 Standard charging	0.2C 恒流充电至 4.2V 0.2C constant current charge to 4.2V 再 4.2V 恒压充电至充电电流 $\leq$ 0.02C Then 4.2V constant voltage charging until the charging current is less than 0.02C	/
7	放电电流 Discharge current	标准放电电流： 0.2C 最大放电电 流：1.0C Standard discharge current: 0.2C Maximum discharge current: 1.0C	/
8	储存温度 Storage temperature	1 Month：-10~45℃ 6 Months：-10~35℃ Recommended long-term storage temperature 20 $\pm$ 5℃	/
10	工作温度Working Temp	Charging: 0~+45℃, humidity $\leq$ 85%RH Discharge: -25~+55℃, humidity $\leq$ 85%RH, charging below 0℃ is prohibited	/
11	电池出货电压 Battery shipping voltage	3.75 ~ 3.95V in transporation	$\pm$ 5mv

3. 电芯性能标准Battery performance standards

3.1 标准测试环境Standard test environment

除非另有说明，测试应在电池出货的 1 个月内进行，且充放电循环的次数少于 5 次。本产品检验标准中的所有测试均在以下环境条件下进行：

Unless otherwise specified, the test should be performed within 1 month of the battery shipment, and the number of charge and discharge cycles is less than 5 times. All tests in this product inspection standard are carried out under the following environmental conditions: **Temperature: 23°C+/- 2°C Humidity: 65+/-20%RH**

3.2 主要电性能 Main electrical properties

No.	Item	Test Method 测试方法	性能标准 Performance standard	行业误差标准 Industry Error Standard
1	外观 Appearance	目测 Visual inspection	No scratches (length $\leq$ 2mm, number of bars $\leq$ 2), depth $\leq$ 0.05mm)	$\leq$ 2000PPM
			No flatulence	$\leq$ 5000PPM
			No leakage	$\leq$ 5000PPM
2	电池尺寸 Battery size	数显卡尺Digital caliper	长度、宽度、厚度 Length, width, thickness	$\pm$ 0.5mm
3	初始内阻 Initial internal resistance	半电状态下，测量其 AC 1KHz 下的交流阻抗In the half-electric state, measure its AC impedance under AC 1KHz	/	/
4	初始放电容量 Initial discharge capacity	该容量是指标准充电后，0.2C 放电至 2.75V 截止电压所放出的容量。 This capacity refers to the capacity released by 0.2C discharge to 2.75V cut-off voltage after standard charging.	大于最小容量的 90% Greater than 90% of minimum capacity	/

5	循环寿命 Cycle life	测试条件 : Test Conditions: Charge: 0.2C to 4.2V Discharge: 0.2C to 2.75V When the discharge capacity drops to 75% of the rated capacity, Stop the test.	循环次数不小于 300 次 The number of cycles is not less than 300	/
6	PACK 后 功能检测 After PACK Function test	依规格书性能指标 According to specifications	/	≤1000PPM

4. 贮存及其它事项Storage and other matters

4.1 长期贮存的电池(超过 3 个月)须置于干燥凉爽处, 储存电压应保持在 3.6~3.9V, 且储存要求为 20 ±5°C

Long-term storage of batteries (more than 3 months) must be placed in a dry and cool place, the storage voltage should be maintained at 3.6~3.9V, and the storage requirement is 20 ±5°C

4.2 本说明书中未提及的任何事项, 须经双方协商确定。

4.3 Any matters not mentioned in this manual must be negotiated by both parties.

5. 保质期Warranty

产品保质期为 12 个月, 自出厂日期 (喷码) 开始算起。

The product shelf life is 12 months, starting from the date of manufacture (code printing).

