

深圳市康胜新能源产品有限公司

产 品 规 格 书

Product Specification Book

LR6 碱性锌锰电池

LR6 alkaline zinc manganese battery

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核 准:

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1 · 概述 Overview

本规格书适用于深圳市康胜新能源产品有限公司生产的 LR6 产品

This specification applies to LR6 products produced by Shenzhen Kangsheng New Energy Products Co., Ltd.

1.1 型号 model

IEC : LR6 Other : AA JIS : AM-3

1.2 参考标准 Guideline

IEC 60086-1 :2015 --- Primary Batteries - Part 1: General

IEC 60086-2 :2015--- Primary Batteries - Part 2: Physical and electrical specification

1.3 执行标准 Executive standard

GB/T 8897.2-2013

2 · 电化学体系 Electrochemical system

锌/氢氧化钾/电解二氧化锰 Zinc/potassium hydroxide/electrolytic manganese dioxide

不添加水银和镉 No mercury and cadmium added

3. 标称电压 standard : 1.5V

4. 平均重量 Average weight : 21.5 g

5. 标称容量 Nominal capacity: 2100 mAh (条件: 100mA 负载, 每天放电 1 小时, 终止电压 0.9V , 放电环境: 20+/-2° C Conditions: 100mA load, daily discharge)

6. 电性能 Electrical properties (测试条件 Test Conditions : 负载电阻 Load Resistance (±0.5%) 3.9 Ω, 测试时间 testing time: 0.3 秒, 温度 temperature: 20±2°C。)

	开路电压 (V) Open circuit voltage (V)	负载电压 (V) Load voltage (V)	接收水平 Reception level
新电池 (交货 30 天内) New battery (within 30 days of delivery)	≥1.58	≥1.40	MIL-STD105E · II · AQL=0.4
常温储存 12 个月 Store at room temperature for 12 months	≥1.56	≥1.35	

7. 放电性能 Discharge performance (测试环境 test environment: 温度 temperature 20±2℃ 相对湿度 Relative humidity: 55±20%RH)

	放电条件 Discharge condition			新电常规放电水平 New electricity conventional discharge level	最小平均放电时间 Minimum average discharge time		
	放电负载 Discharge load	放电方式 Discharge method	终止电压 End voltage		新电池 New battery	20±2℃贮存12个月 After storage at 20±2℃ for 12 months	应用 Application
IEC 项目	3.9Ω	1h/d	0.8V	7.0h	6.5h	6.2h	马达/玩具 Motor/Toy
	3.3Ω	4min/h, 8h/d	0.9V	330min	300min	280min	手电筒 flashlight
	24Ω	15s/m, 8h/d	1.0V	42.0h	41.0h	40.0h	遥控 remote control
	43Ω	4h/d	0.9V	81.0h	80.0h	79.0h	收音机/时钟 Radio/clock
	1000mA	10s/m, 1h/d	0.9V	400time	350time	320time	照相闪光灯 Photo flash
	250mA	1h/d	0.9V	7.5h	7.0h	6.5h	CD/电子游戏机 CD/electronic game console
	100mA	1h/d	0.9V	22.0h	21.0h	20.0h	数字音响 Digital audio
	1500mW/2s 650mW/28	10T/h	1.05V	65time	60time	55time	数码相机 Digital camera
	3.9Ω	24h	0.9V	360min	350min	330min	放电检测 Discharge detection

验收方法 Acceptance method:

1) 每一交货批, 每一放电项目, 抽 9 个电池作放电测试。

For each delivery batch and each discharge item, draw 9 batteries for discharge test

2) 放电平均结果大于或等于最小平均放电时间, 且个体放电时间低于最小平均值的 80% 的电池个数不大于 1, 则批次电池容量测试为合格。

The average discharge result is greater than or equal to the minimum average discharge time, and the number of batteries whose individual discharge time is less than 80% of the minimum average is not greater than 1, then the batch battery capacity test is qualified

3) 如果第一次测试不合格, 则须重新抽样测试, 重测结果合格, 则整批货为合格。

If the first test fails, you must re-sample the test, and the retest result is qualified, then the whole batch of goods is qualified.

4) 产品年自放电下降率在 10% 以内, 一年内漏液率控制在十万分之三。

The annual self-discharge reduction rate of the product is within 10%, and the liquid leakage rate within one year is controlled at three out of 100,000.

8. 耐漏性能 Leak resistance

项目 project	条件 condition	测试时长 Test duration	结果 result	接收水平 Reception level
过放电测试 Over discharge test	在 20°C±2°C 和 55±20%RH 的环境下, 用 10 Ω 电阻连续放电 Under the environment of 20°C ±2°C and 55±20%RH, use 10 Ω resistor to discharge continuously	连续放电 48 小时 Continuous discharge for 48 hours	电池的形变不能超过尺寸规格值的上限及不能发生肉眼可辨别的漏液现象 The deformation of the battery must not exceed the upper limit of the size specification value and no leakage that can be distinguished by the naked eye	N=9 · Ac=1,Re=2
恒温恒湿测试 Constant temperature and humidity test	60 ±2°C 相对湿度 90±5% RH 60 ±2°C relative humidity 90±5% RH	35 天		N=20 · Ac=1,Re=2

9. 安全性能 Safety performance

项目 project	条件 condition	测试时长 Test duration	要求 Require	接收水平 Reception level
短路特征 Short circuit characteristics	环境温度: 20 ±5°C Ambient temperature: 20 ±5°C	24 小时 24 hours	测试期内, 电池不能发生爆炸。	N=5 · Ac=0,Re=1
三对 1 充电 Three-to-one charging	4 个电池串联短路, 其中一个反向连接 4 batteries are short-circuited in series, and one of them is connected in reverse	24 小时 24 hours	During the test period, the battery must not explode.	N=20 · Ac=0,Re=1

10. 标识 Logo

标签上印有以下内容 The following is printed on the label :

- (1) 型号 Model: LR6
- (2) 标称电压 Nominal voltage : 1.5V
- (3) 电池极向 Polarity of battery: "+" and "-"
- (4) 警告字眼: 正确装置及使用电池, 切勿充电、分解、加热和短路。

Warning wording: Install and use the battery correctly, and do not charge, disassemble, heat or short-circuit.

11. 使用注意事项 Precautions for use:

(1) 碱性锌锰电池是不可充电的，如果对电池充电有可能发生漏液和爆炸的危险。

Alkaline zinc-manganese batteries are not rechargeable. If the battery is charged, there may be danger of leakage and explosion.

(2) 请按+/-极的标示，正确安装电池。

Please install the battery correctly according to the signs of +/- pole

(3) 禁止对电池短路、加热、投入火中或试图拆解电池。

It is forbidden to short-circuit, heat, throw into fire or attempt to disassemble the battery.

(4) 不要对电池过度放电，这会引起电池泄漏而损坏用电器具。

Don't over-discharge the battery, which will cause battery leakage and damage electrical appliances

(5) 新旧电池，不同型号或品牌的电池，不能同时使用。如果更换电池时，请确认使用同一品牌且全部更换。

Old and new batteries, batteries of different models or brands, cannot be used at the same time. If you replace the batteries, please make sure to use the same brand and replace them all.

(6) 用完的电池请及时更换，以防止电池过度放电。否则有可能引起电池泄漏而损坏用电器具。

Please replace the used battery in time to prevent the battery from over-discharging. Otherwise it may cause battery leakage and damage electrical appliances

(7) 禁止直接在电池上焊接，这样有可能损坏电池。

It is forbidden to weld directly on the battery, as this may damage the battery.

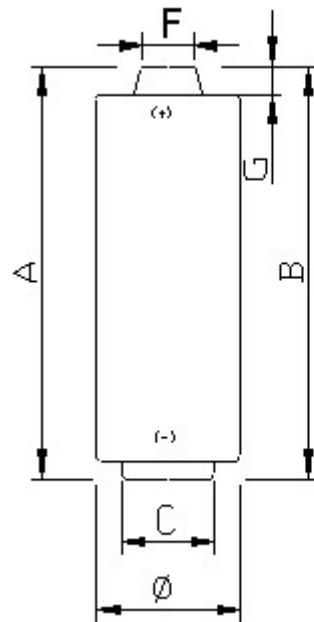
12 · 保质期 Shelf life:

在温度 $20 \pm 2^{\circ} \text{C}$ ，相对湿度 $55 \pm 20\% \text{RH}$ 条件下电池保质期为 3 年

The shelf life of the battery is 3 years at a temperature of $20 \pm 2^{\circ} \text{C}$ and a relative humidity of $55 \pm 20\% \text{RH}$

常温条件下电池保质期为 2 年

The battery shelf life is 2 years under normal temperature conditions



MODEL	LR6
A (Max)	50.5
B (Min)	49.5
C (Min)	7.0
F (Max)	5.5
G (Min)	1.0
Ø (Max)	14.5
Ø (Min)	13.7