



新利達電池有限公司
New Leader Battery Ltd.

ALKALINE ZINC-MANGANESE DIOXIDE

MERCURY-FREE BUTTON CELL

碱性锌-二氧化锰无汞扣式电池

LR41

TECHNICAL SPECIFICATION

技术规格书

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The manufacturer reserves the right to modify product specification herein without prior notice.

本公司对本产品技术规格如有更改, 恕不另行通知。

1 Scope 适用范围

This specification is applicable to New Leader's alkaline zinc-manganese dioxide mercury-free button cell: LR41

本规格书适用于新利达碱性锌-二氧化锰无汞扣式电池: LR41

2 Designations 型号

NEW LEADER 新利达	IEC	ANSI	JIS	OTHERS 其他
LR41	LR41	—	A3	AG3, 192

3 Standard Compliance 产品符合标准

GB/T 8897.1—2013 原电池 第 1 部分: 总则 (IEC 60086-1:2011, MOD)

GB/T 8897.2—2013 原电池 第 2 部分: 外形尺寸和电性能要求 (IEC 60086-2:2011, MOD)

GB/T 8897.3—2013 原电池 第 3 部分: 手表电池 (IEC 60086-3:2011, MOD)

GB 8897.5—2013 原电池 第 5 部分: 水溶液电解质电池的安全要求 (IEC 60086-5:2011, IDT)

4 Chemical System 化学体系

Zinc-Manganese Dioxide (Potassium Hydroxide Electrolyte)

锌 - 二氧化锰 (氢氧化钾电解液)

5 Nominal Voltage 标称电压

1.5 V

6 Average Weight 平均重量

0.64 g

7 Typical Capacity 典型容量

41 mAh

Condition: Rated at 15K Ω at (20 $\pm$ 2) $^{\circ}$ C, continuous discharge to end-point voltage 0.9V.

条件: 在(20 $\pm$ 2) $^{\circ}$ C环境下, 使用 15K Ω 电阻连续放电至终止电压 0.9V。

8 Electrical Characteristics 电性能

Item 项目	Resistance 电阻	Fresh Battery (Within 30 days after delivery) 新电池 (交货后 30 天内)	After 12 months 贮存 12 个月后	Test Conditions 检测条件
Off-load Voltage 空载电压	—	1.52V~1.65V	1.50V~1.65V	Temp. 温度: (20 $\pm$ 2) $^{\circ}$ C RH 相对湿度: (55 $\pm$ 20)%
On-load Voltage 负载电压	15 K Ω	1.50V~1.65V	1.47V~1.65V	Temp. 温度: (20 $\pm$ 2) $^{\circ}$ C RH 相对湿度: (55 $\pm$ 20)%



9 Discharge Performance 放电性能

Discharge Conditions 放电条件				Minimum Average Duration 最小平均放电时间 (MAD)	
Resistance 电阻	Discharge Schedule 放电计划	End-point Voltage 终止电压	Environmental Conditions 环境条件	Fresh Battery 新电池	After 12 Months 贮存 12 个月后
15 K Ω	Continuous 连续	0.9 V	Temp. 温度: (20 $\pm$ 2) $^{\circ}$ C RH 相对湿度: (55 $\pm$ 20)%	528 h 小时	480 h 小时

10 Safety Characteristics 安全性能

Test Item 测试项目	Condition 条件	Period 时间	Requirements 要求	Acceptance Standard 验收标准
External Short Circuit 外部短路	Temp. 温度: (20 $\pm$ 5) $^{\circ}$ C	24 h 小时	There shall be no explosion of battery 电池没有爆炸	N=9 Ac=0 Re=1

11 Marking 标志

The following marking will be printed, stamped or impressed on the body of the battery:

在电池上标明以下内容:

(1) Designation 型号: LR41

(2) Polarity marking 极性标记: “+” Marked on cathode can 正极外壳标注“+”。

(3) Manufacturer's trade mark 制造商商标: New Leader Logo 新利达商标 

(4) Mercury-free marking 无汞标识: 0.%Hg CELL

12 Cautions 注意事项

12.1 Storage 贮存

Batteries shall be stored in well-ventilated, dry and cool conditions. For normal storage, the temperature should be between 10 $^{\circ}$ C and 25 $^{\circ}$ C and should never exceed 30 $^{\circ}$ C, the relative humidity should be at (55 $\pm$ 20)%. High temperature or high humidity may cause deterioration of the battery performance or surface corrosion.

电池应贮存在通风良好、阴凉干燥处。正常的贮存温度应在 10 $^{\circ}$ C~25 $^{\circ}$ C，不应当超过 30 $^{\circ}$ C，相对湿度应在(55 $\pm$ 20)%。高温或高湿可能会损害电池性能或造成电池表面腐蚀。

12.2 Use and Disposal 使用和处置

(1) Always insert batteries correctly with regard to the polarities (+ and -) marked on the battery and the equipment. Batteries which are incorrectly placed into equipment may be short-circuited, or charged. This can result in a rapid temperature rise causing leakage, explosion and may cause personal injury.

应按电池和电器具上标明的极性标志（+和-）正确地装入电池。不正确装入电器具的电池有可能被短路或充电，使电池温度迅速升高，导致漏液、爆炸和人身伤害。



- (2) Batteries should not be short-circuited, heated, dismantled and thrown into fire.

不要将电池短路、加热、拆开及投入火中。

- (3) Do not charge batteries. Attempting to charge a non-rechargeable battery may cause internal gas and/or heat generation resulting in leakage, explosion and may cause personal injury.

不要对电池进行充电。试图对不可充电的电池充电会使电池内部产生气体和/或热量，导致电池漏液、爆炸和人身伤害。

- (4) Do not mix old and new batteries or batteries of different types or brands. When replacing batteries, replace all of them at the same time with new batteries of the same brand and type. When batteries of different brand or type are used together, or new and old batteries are used together, some batteries may be over-discharged due to a difference of voltage or capacity. This can result in leakage, explosion and may cause personal injury.

不要将新旧电池或不同类型或牌号的电池混用。更换电池时，要用相同牌号、相同类型的新电池同时更换全部电池。当不同牌号或种类的电池一起使用，或新旧电池混用时，由于存在电压或容量的差异，可能会使某些电池过放电，从而导致电池漏液、爆炸和人身伤害。

- (5) Exhausted batteries should be immediately removed from equipment and properly disposed of. When discharged batteries are kept in the equipment for a long time, electrolyte leakage may occur causing damage to the appliance and/or personal injury.

应及时从电器具中取出已耗尽电能的电池并妥善处理。放过电的电池长时间留在电器具中有可能发生电解液泄漏，导致电器具损坏和/或人身伤害。

- (6) Do not weld or solder directly to batteries. The heat from welding or soldering directly to a battery may cause internal short-circuiting resulting in leakage, explosion and may cause personal injury.

不要直接焊接电池。当直接焊接电池时，电池有可能因受热而损坏，导致内部短路并引起漏液和爆炸，可能导致人身伤害。

- (7) Keep batteries out of the reach of children to prevent swallow. In case of ingestion of a cell or a battery, the person involved should seek medical assistance promptly.

电池应存放在儿童拿不到的地方，以免儿童误吞电池。万一误吞电池应马上就医。

- (8) Store unused batteries in their original packaging away from metal objects. If already unpacked, do not mix or jumble batteries to avoid them short-circuiting with each other.

将不用的电池放在原包装内，远离易引起短路的金属物体。如果包装已经拆掉，不要把电池混堆在一起，以免电池相互短路。

13 保质期

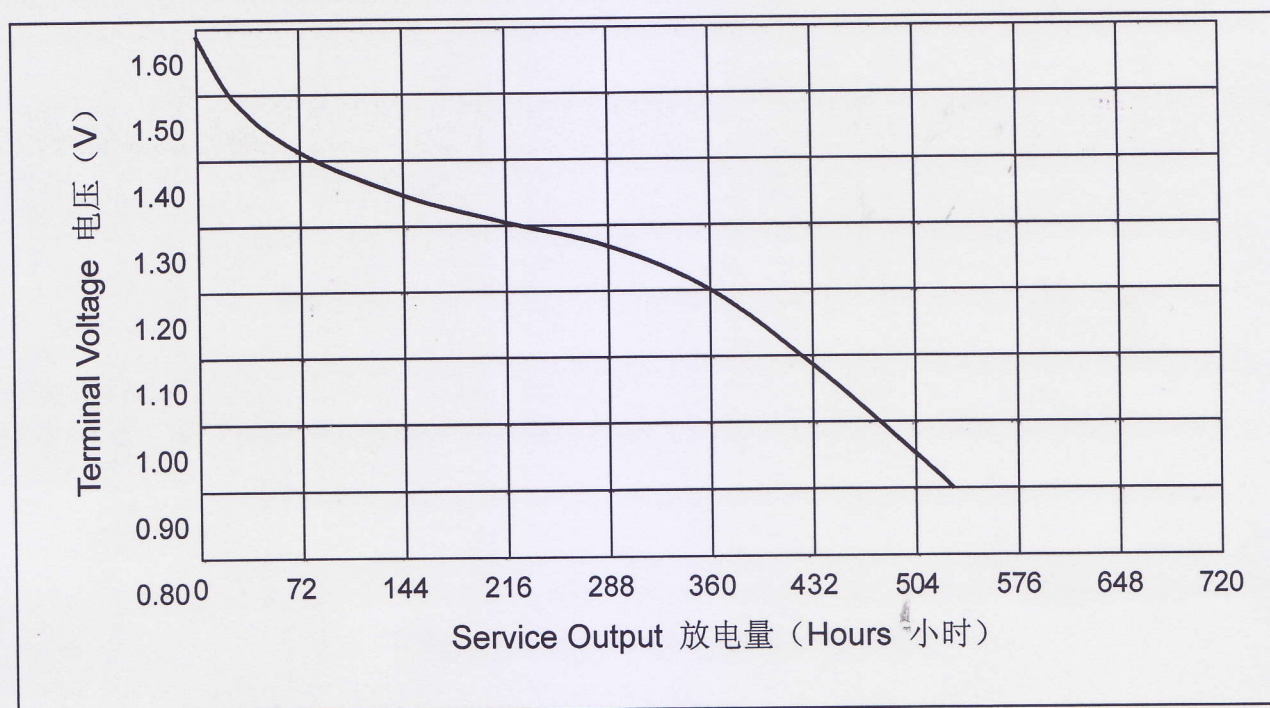
在遵循本规格书第 12 条情况下，本产品自交货到香港仓库后起计保质 12 个月。

Product described in this spec.sheet is comes with 12 Months of quality warranty, the date should be counted from customer's received the goods.by Hong Kong logistic warehouse.



14 Typical Discharge Characteristics 典型放电特征

Typical Load 放电负载	Discharge Schedule 放电计划	End-point Voltage 终止电压	Environmental conditions 环境条件
15 K Ω	Continuous 连续	0.9V	Temp. 温度: (20 $\pm$ 2) $^{\circ}$ C RH 相对湿度: (55 $\pm$ 20)%



15 Dimensions & Structure 尺寸及结构

Dimensions 尺寸 (mm)	Structure 结构
Top View Dimensions: - Outer Diameter: $\Phi 7.83 \pm 0.05$ - Inner Diameter: $\Phi 4.80 \pm 0.10$ - Central Pin Diameter: $\Phi 0.80$ - Pin Height: $H 0.02 - 0.05$ Side View Dimensions: - Total Height: $3.50^{+0.10}_{-0.15}$ - Can Height: 3.10 ± 0.10	Internal Structure Labels: - Negative Electrode (Zn) 负极锌膏 - Conductive Point 导电接触点 - Anode Cap $\ominus$ 负极盖 - Gasket 密封圈 - Separator 隔膜 - Cathode Can $\oplus$ 正极壳 - Positive Electrode (MnO_2) 正极锰片



16. Packing Condition 包装数据

200 pcs per Blister Tray

25 trays/ 5,000 pcs per Bundle

Each bundle add with 1 bag of Desiccant / Bag well-sealed up avoid moisture.

4 bundles per Carton

Measurement 26.5X25.5X22.5 CM

G.W 14.5 Kgs

N.W 14.0 Kgs

Total 20K pcs per carton

Marking:

(1) Month of Exfactory

Each export carton stamping with short form of ex-factory Month at the top of carton.

I.e.: January = JAN

Font size: 1inch X 1inch

(2) Exactly exfactory date

Each carton also stamp with exactly ex-factory date.at the top of the carton.

