TECHNICAL SPECIFICATION

1. Scope:

1.1 Designations
IEC & GB: LR54 / LR1130
JIS: LR54
ANSI: 189
OTHERS: AG10

1.2 Reference Document
IEC 60086-1 :2021 --- Primary Batteries - Part 1: General
IEC 60086-2 :2021--- Primary Batteries - Part 2: Physical and electrical specification
IEC 60086-5-2016- primary batteries –Part 5：Safety of batteries with aqueous electrolyte

2. Chemical System：

Alkaline-Manganese Dioxide (-) Zn | KOH | MnO2(+)
0% Mercurio (Hg) y 0% Cadmio (Cd).

3. Nominal Voltage：1.50 V

4. Average Weight：1.1 g

5. Nominal Capacity：

Designed for alkaline applications in compliance with IEC standards

6. Electrical characteristics：(Test condition: 20℃±2℃)

Items	Off-load voltage	(1kΩ) On-load voltage	Acceptance criteria
Initial (Within 30 days after delivery)	≥1.55V	≥1.53V	MIL-STD105E, Class Ⅱ, Double Sampling, AQL=0.4
After 12 months	≥1.52V	≥1.50V	

7. *Safety characteristics*

Test item	Condition	Period	Requirements	Acceptance standard
High temperature and humidity test	57℃ 95%RH	10 d 18hrs/d	No leakage	**N=20, S1：Ac=2,Re=3**
External short circuit	Temp.: (20±5)℃	24 h	There shall be no explosion during this test	**N=9, Ac=0, Re=1**
Over-discharge Characteristics	Temp: 20±2℃; Load：68KΩ	Continuous discharge 48 hours after discharge termination	No leakage or explosion by eye	**N=9, Ac=0, Re=1**

8. Marking

The following markings will be stamped on the cathode can of the battery:

a) Designation：LR1130
b) Polarity marking： “+”
c) Manufacturer trademark: Powercell
d) Mercury-free marking：0.0%Hg

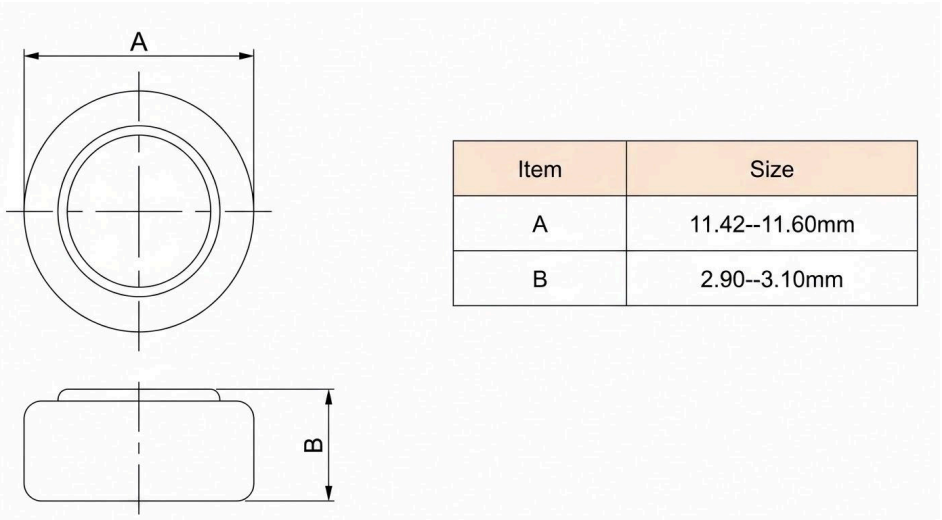
9. Safety precautions:

a) Do not charge the battery as this may cause battery leakage and damage to charging equipment;
b) Insert batteries correctly with regard to the polarities (＋and－) marked on the battery and the equipment;
c) Do not short circuit, heat, or put the battery into fire;
d) Do not disassemble the battery as the internal electrolyte will corrode the skin
e) Do not use both new and used batteries at the same time
f) Please remove the depleted battery from the appliance to avoid leakage caused by over discharge;
g) Batteries should be kept out of reach of children to prevent accidental ingestion;
h) Before installing the battery into the electrical appliance, wipe the cover with alcohol to better utilize and protect the appliance;
i) Batteries should not come into contact with corrosive substances such as strong acids and alkalis.

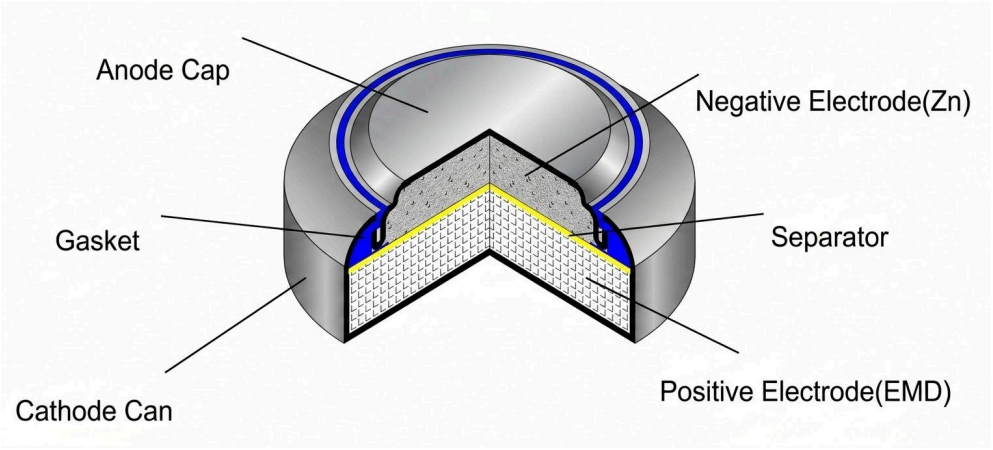
10. Warranty period

3 years

11. Size and structure



Item	Size
A	11.42--11.60mm
B	2.90--3.10mm



Powercell Peru
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Canales oficiales Web: www.powercell.pe | Email: ventas@powercell.pe

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