TECHNICAL SPECIFICATION

1. Scope:

1.1 Designations
IEC & GB: LR03
JIS: AM-4
ANSI: AAA
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
1.3 Execution Standard:
GB/T 8897.2-2021

2. Chemical System:

Zinc/Potassium Hydroxide/Electrolytic Manganese Dioxide
0% Mercurio (Hg) y 0% Cadmio (Cd).

3. Nominal Voltage: 1.5 V

4. Average Weight: 11.0 g

5. Nominal Capacity:

Designed for alkaline applications in compliance with IEC standards

6. Electrical performance: (Test condition: Load resistance (±0.5%) 3.9Ω, test time: 0.3 seconds, temperature: 20±2℃)

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	Open Circuit Voltage (V)	On-Load Voltage (V)	Acceptance Level
Fresh battery (within 30 days of delivery)	≥1.58	≥1.42	MIL-STD105E, Ⅱ, AQL=0.4
Stored for 12 months at room temperature	≥1.56	≥1.40	

7. *Leakage Resistance Performance*

Item	Condition	Test Duration	Result	Acceptance Level
Over-discharge Test	Under 20℃±2℃ and 55±20%RH environment, continuously discharge with 20Ω resistor	Continuous discharge for 48 hours	Battery deformation shall not exceed the upper limit of dimension specifications and no visually observable leakage shall occur	**N=9, Ac=1,Re=2**
High Temperature and High Humidity Test	60 ±2°C, Relative Humidity 90±5% RH	35 days		**N=20, Ac=1,Re=2**

8. Safety Performance

Item	Condition	Test Duration	Requirement	Acceptance Level
Short Circuit Characteristics	Ambient Temperature: 20 ±2°C	24 Hours	During the test period, the battery shall not explode.	**N=5, Ac=0,Re=1**
Three against One Charge	4 batteries connected in series short circuit, one of which is connected in reverse.	24 Hours		**N=20, Ac=0,Re=1**

9. Marking

The contents of the label:
(1)Model: LR03
(2)Registered Trademark: POWERCELL
(3)Nominal Voltage: 1.5V
(4)Battery Poloidal: “+”and“-”
(5)Warning words: Install and use correctly. Do not recharge, disassemble, heat and short-circuit.

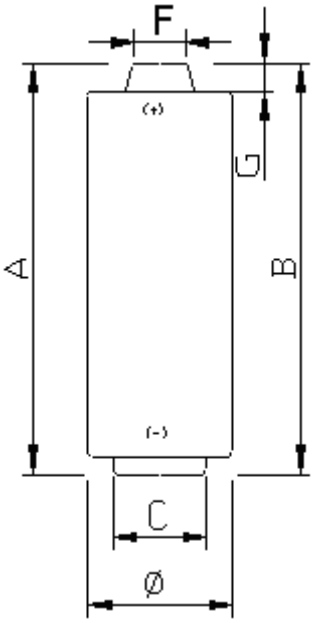
10. Precaution for use

(1) Alkaline zinc-manganese batteries are non-rechargeable. Charging the battery may cause risk of leakage and explosion.
(2) Please install the battery correctly according to the +/- polarity markings.
(3) Do not short-circuit, heat, dispose of in fire, or attempt to disassemble the battery.
(4) Do not over-discharge the battery, as this may cause battery leakage and damage electrical appliances.
(5) New and used batteries, or batteries of different types or brands, should not be used together. When replacing batteries, please make sure to use the same brand and replace all of them.
(6) Please replace exhausted batteries in time to prevent over-discharge. Otherwise, it may cause battery leakage and damage electrical appliances.
(7) Direct soldering on the battery is prohibited, as this may damage the battery.

11. Shelf Life

Under conditions of temperature 20±2°C and relative humidity 55±20%RH, the battery shelf life is 8 years
Under room temperature conditions, the battery shelf life is 5 years

12. Dimensions



MODEL / DIMENSIONS (mm)	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

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