

WAMA ELECTRONICS TECH CO.,LTD

Alkaline AA (LR6) Battery

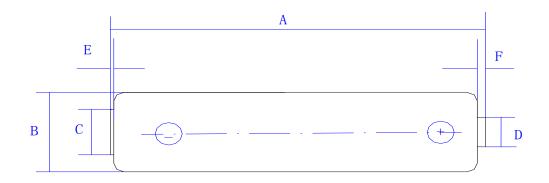
Notes:

The technical standards in this specification apply only to the alkaline (Zinc-Mn2) dry battery provided by WAMA. the cells should meet the rules IEC 60086-1.2 and GB/T 7112 standard.

Discharge time: 360 minutes

1. Dimensions

Cell dimensions is as follows



Unite: mm

Dimension	Maxi.	Min.
А	50.5	49.2
В	14.5	13.5
С		7.0
D	5.5	
E	`0.5	
F		1.0

2. Nominal Voltage

Max. 1.650V Min. 1.500V



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3 Electrical properties

3.1 Load resistance precision is not lower than±0.5%10Ω Discharge period24h/d Terminal voltage0.9V Minimum average discharge duration Initial period (Battery is considered as in initial period, which is within 30 days after production.) 18.3 h		
Discharge period24h/d Terminal voltage0.9V Minimum average discharge duration		
Minimum average discharge duration		
Initial period (Battery is considered as in initial period, which is within 30 days after production.) 18.3 h		
Battery is stored for 12 months under 20° ± 2° and $60 \pm 10^{\circ}$ of relative humidity. 17.4 h		
Battery is stored for 24months under $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $60\pm 10\%$ of relative humidity. 16.5 h		
Battery is stored for 36 months under 20℃±2℃ and 60±10% of relative humidity. 15.5 h		
3.2 Load resistance precision is not lower than $\pm 0.5\%$.		
Discharge period 15s/min 24h/d		
Terminal voltage 9V		
Minimum average discharge duration		
Initial period (Battery is considered as in initial period, which is within 30 days after production.) 550tii		
Battery is stored for 12 months under 20°C ±2°C and 60±10% of relative humidity. 511 ti		
Battery is stored for 24 months under 20°C±2°C and 60±10% of relative humidity. 495 ti		
Battery is stored for 36 months under 20℃±2℃ and 60±10% of relative humidity. 440 ti	mes	
3.3 Load resistance precision is not lower than $\pm 0.5\%$. 3.9 Ω		
Discharge period 24h/d		
Terminal voltage		
Minimum average discharge duration		
Initial period (Battery is considered as in initial period, which is within 30 days after production) Battery is stored for 12 months under 20°C±2°C and 60±10% of relative humidity. 5.5 h		
Battery is stored for 12 months under 20°C±2°C and 60±10% of relative humidity.		
Battery is stored for 24 months under 20°C±2°C and 60±10% of relative humidity.		
Battery is stored for 36 months under 20°C±2°C and 60±10% of relative humidity.	1	
3.4 Load resistance precision is not lower than $\pm 0.5\%$. 3.9 Ω		
Discharge period 1h/d		
Terminal voltage 0.8V		
Minimum average discharge duration		
Initial period (Battery is considered in initial period, which is within 30 days after production) 6.6 h		
Battery is stored for 12 months under 20°C±2°C and 60±10% of relative humidity. 6.1 h Battery is stored for 24 months under 20°C±2°C and 60±10% of relative humidity. 5.9 h		
Battery is stored for 24 months under $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $60\pm 10\%$ of relative humidity. 5.9 h Battery is stored for 36 months under $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $60\pm 10\%$ of relative humidity 5.2 h		
Battery is stored for 36 months under 20 C±2 C and 60±10% of relative numbers 9.2 h		
3.5 Load resistance 43Ω		
Discharge period 1h/d		
Terminal voltage 0.9V		
Minimum average discharge duration		
	5.0 h	
	.0 h	
	.0 h	
Battery is stored for 36 months under 20°C±2°C and 60±10% of relative humidity 72	.0 h	
3.6 Load resistance 1000 mA		
Discharge period 15s/min 1h/d		

0.9V

250 times

Terminal voltage

Minimum average discharge duration

Initial period (Battery is considered in initial period, which is within 30 days after production)



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4. Leakage-resistance property

4.1 Storage test under high temperature and humidity

Test condition 60 ±2°C 90±5 RH

Test period 20days

During the test period, battery doesn't leak, that is, the cell surface doesn't have electrolyte, sealant or other internal component.

4.2 High-temperature test

Test condition 70 ±2°C Test period 7 days

During the test period, battery doesn't leak, that is, the cell surface doesn't have electrolyte, sealant or other internal component.

5 Safety performances

5.1 Short-circuit test

Under standard environmental condition, short-circuit is carried on for the two-pole of the battery. It should not exceed the specified limit and no explosion may occur. The leakage is tolerable,

The maximum temperature of cell surface 150 °C
Test duration 6 h

5.2 Safety valve test

Four cells are connected in a series with a load resistor and one of the 4 cells is connected with reverse polarity. Connect the circuit to the scheduled time by switch; the safety valve of battery should be opened and no explosion may occur. Leakage is tolerable,

Load resistance 3.9 Ω Time 24 h

5.3 Forced over discharge test

Put four pieces of battery together into a circuit, and access to a resistor, one piece of battery among them is reverse. These batteries conduct a continuous discharge under 3.9 ohms until its load voltage is 0.9 volt. Connect the circuit to the scheduled time by switch; the safety valve of battery should be opened (Leakage is allowed), but not an exploration.

Load resistance 3.9 Ω Time 3 days

6. Heavy metal content

Heavy metal content in the battery should be controlled:

Mercury (on the basis of each battery weight) Maximum 0.0001% Cadmium (on the basis of each battery weight) Maximum 0.0001%