

ENGINEERING SPECIFICATION

Product: R6P, Zn/MnO₂,1.5Volts

Date: March 9, 2005

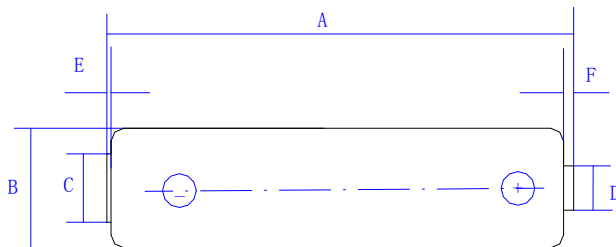
SCOPE :

This specification defines the technical requirements for dry cells distributed by BAO TONG. If not otherwise specified, the cells should meet or exceed the requirements of **IEC 60086-1,2**

If not otherwise specified in the drawing, the cell shall meet the dimensional requirements of standards listed in the scope.

1. Dimensions

in accordance with attached drawing.



Dimensions	max	min
A	50.5	49.2
B	14.5	13.5
C	--	7.0
D	5.5	--
E	0.5	--
F	--	1.0

2. Electrical Requirement

O.C.V. Min:1.560V,

Max:1.725V

C.C.V. ≥ 1.450V

After 0.2sec±0.01sec by R=5.0Ω

3. Service Life:

3.1

Load Resistance (±0.5%)	3.9 Ohms			
Cycle Time	24h/d			
Cutoff Voltage	0.9Volt			
Storage Condition	+20°C±2°C and 60±10%RH			
Minimum Average Duration	<30days	12 months	24months	36months
	90 mins	76 mins	72 mins	

3.2

Load Resistance (±0.5%)	1.8 Ohms			
Cycle Time	15s/min 24h/d			
Cutoff Voltage	0.9Volt			
Storage Condition	+20°C±2°C and 60±10%RH			
Minimum Average Duration	<30days	12 months	24months	36months
	160 cycles	136cycles	108 cycles	

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3.3

Load Resistance (±0.5%)	3.9 Ohms			
Cycle Time	1h/d			
Cutoff Voltage	0.9Volt			
Storage Condition	+20°C±2°C and 60±10%RH			
Minimum Average Duration	<30days	12 months	24months	36months
	2.3hours	2hours	1.8hours	

3.4

Load Resistance (±0.5%)	43 Ohms			
Cycle Time	4h/d			
Cutoff Voltage	0.9Volt			
Storage Condition	+20°C±2°C and 60±10%RH			
Minimum Average Duration	<30days	12 months	24months	36months
	28hours	24hours	22hours	

3.5

Load Resistance (±0.5%)	10 Ohms			
Cycle Time	1h/d			
Cutoff Voltage	0.9Volt			
Storage Condition	+20°C±2°C and 60±10%RH			
Minimum Average Duration	<30days	12 months	24months	36months
	6hours	5hours	4.8hours	

4. Leakage Resistance

4.1 High heat and humidity storage test

High Temperature Exposure

When exposed to a temperature of 45 ±2°C
for a period of

20 days

no leakage shall occur during the test

5. Safety Requirement

5.1 Short Circuit Test

When a continuous short circuit is applied to the cell terminals at Standard Environment, the case temperature must not exceed the specified limit and no explosion may occur.- Leakage is tolerable

5.2 Safety Vent Test

When 4 cells are connected in series with a load resistor and one of the 4 cells is connected with reverse polarity no explosion may occur. - The safety valve must operate
Test Duration

24 hours

5.3 Forced Over Discharge Test

When one drained cell is connected in series with 3 fresh cells

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and a load resistor, no explosion may occur. - Leakage is tolerable.
The drained cell is prepared by discharging a fresh cell
through a 3.9 Ohm resistor until its CCV reaches 0.9 V

Test Duration

3 days

6. Heavy Metal Contents

The heavy metal contents of the cell shall conform to
Mercury limit (per cell weight)
Cadmium limit (per cell weight)

1 ppm max
100ppm max