

# Product Specification

## 1. APPLICABILITY

This specification is applicable to "Cardio Cell" alkaline cell, 6LR61 (No mercury added).

## 2. GENERAL

### 2.1 Type designation

IEC 6LR61

JIS 6LR61

ANSI 6LR61

### 2.2 chemical system

Zn/KOH-H<sub>2</sub>O/MnO<sub>2</sub>

### 2.3 Nominal voltage: 9.0 V

### 2.4 Weight: approximate 45g

### 2.5 Dimension(mm)

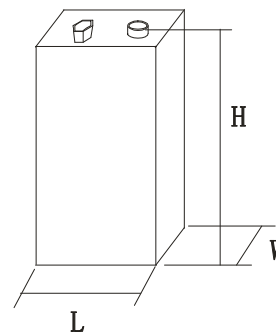
/	Min	max
L	24.5	26.5
W	15.5	17.5
H	46.5	48.5

### 2.6 Heavy Metal Contents

Hg	Cd	Pb
<1ppm	<3ppm	<30ppm

### 2.7 capacity

approximate 500mAh (35mA,24h/d, 20•, e.v.:5.4V)



## 3. APPEARANCE

There shall be no dirt, scratch or deformation detrimental to practical service in appearance.

## 4. ELECTRICAL CHARACTERISTICS (180•, 0.3S, 20±2•)

/		OCV(V)	CCV(V)	SC(A) (reference)
Initial	Min	9.2	8.8	2.7
	Normal	9.5	9.2	4.0
Storage 1 year	Min	9.0	8.5	1.8
	Normal	9.3	9.0	3.0

Note: storage condition: 20±5°C, RH: 45%-75%

## 5. SERVICE OUTPUT

Load		35mA	180•	270•	620•
Test mode		24h/d	30min/d	1h/d	2h/d
end voltage		5.4V	4.8V	5.4V	5.4V
Initial	MAD	13.0 h	11.5h	17.0h	43 h
	Normal	14.5 h	13.0h	18.5h	46h
Storage 1 year	MAD	11.0 h	10.0h	15.5h	41h
	Normal	13.0 h	11.5h	17.0h	43h

Note: storage condition: 20±5°C, RH: 45%-75%

## 6. LEAKAGE RESISTANCE

(1) over discharge leakage test

samples: 9pcs

test conditions: 20±2••RH 60±15%•180•continuous discharge 48h

# Product Specification

---

requirement: no visible leakage and overall height no higher 0.2mm than max height(48.5).

criterion: 0/9

(2) high temperature leakage test

samples: 40pcs

test conditions: store 20 days under  $60\pm 2\%$  & RH  $90\pm 5\%$ , then store 4~24 h under  $20\pm 2\%$  & RH  $60\pm 15\%$ .

requirement: no visible leakage and overall height no higher 0.2mm than max height (48.5).

## 7. SECURITY CHARACTERISTICS

(1) short-circuit explosion-proof characteristics

samples: 10pcs

test conditions: 24h short-circuit under  $20\pm 2\%$ , RH  $60\pm 15\%$ .

requirement: negative terminal no departure from battery body.

criterion: 0/10

## 8. DISCHARGE CURVE(Reference)

35mA continuous • 270 • 620 • intermittent (encl.page.1)

## 9. EXPIRY PERIOD:

7 years

# Product Specification

---

