

# Product Specification

## 1. APPLICABILITY

This specification is applicable to "Cardio Cell" alkaline cell, LR6 (No mercury added).

## 2. GENERAL

### 2.1 Type designation

IEC LR6  
JIS AM-3  
ANSI AA

### 2.2 chemical system

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

### 2.3 Nominal voltage: 1.5 V

### 2.4 Weight: approximate 24g

### 2.5 Dimension(mm)

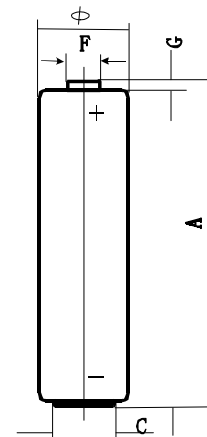
/	min	max
•	13.9	14.4
A	49.9	50.4
C	9.0	9.4
F	5.0	5.4
G	1.2	1.7

### 2.6 Heavy Metal Contents

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

### 2.7 capacity

approximate 3000mAh (75•,24h/d, 20•, e.v.:0.8V)



## 3. APPEARANCE

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

## 4. ELECTRICAL CHARACTERISTICS (3.9•, 0.3S, 20±2•)

/		OCV(V)	CCV(V)	S.C.(A) (reference)
Initial	Min	1.57	1.40	7.5
	Normal	1.60	1.46	9.0
Storage 1 year	Min	1.55	1.37	5.5
	Normal	1.57	1.42	7.0

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

## 5. SERVICE OUTPUT

Load		10•	1.8•	3.9•	10•	43•
Test mode		24h/d	15s/min	1h/d	1h/d	4h/d
end voltage		0.9V	0.9V	0.8V	0.9V	0.9V
Initial	MAD	18.5 h	580cycles	400min	18.2h	87 h
	Normal	19.5 h	640cycles	430min	19.3h	92.5h
Storage 1 year	MAD	17.0 h	470cycles	380min	17.2h	84 h
	Normal	18.5 h	540cycles	410min	18.3h	89h

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

## 6. LEAKAGE RESISTANCE

(1) over discharge leakage test

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samples: 9pcs

test conditions:  $20 \pm 2$  °C, RH  $60 \pm 15\%$ , 10 • continuous discharge 48h

requirement: no visible leakage and overall height no higher 0.2mm than max height(50.5).

criterion: 0/9

## (2) high temperature leakage test

samples: 60pcs

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

requirement: no visible leakage and overall height no higher 0.2mm than max height (50.5) .

## 7. SECURITY CHARACTERISTICS

### (1) short-circuit explosion-proof characteristics

samples: 10pcs

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

requirement: negative terminal no departure from battery body.

criterion: 0/10

### (2) recharge explosion-proof characteristics

samples: 10pcs

test conditions:  $20 \pm 2$  °C,  $60 \pm 15\%$ , recharge 24h with 80mA current.

requirement: negative terminal no departure from battery body

criterion: 0/10

## 8. DISCHARGE CURVE(Reference)

10 • continuous • 1.8 • pulse • 3.9 • intermittent (encl.page.1)

## 9. EXPIRY PERIOD:

7 years

## 10. EXPIRY DATE MARKING:

(1) production date marked on the bottom plate of finished cells . for example: 2004-01 means produced on jan. , 2004. shelf life 3 years marked on bottom of sticker label.

(2) for private label, can mark according to customer's requirements.

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