

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

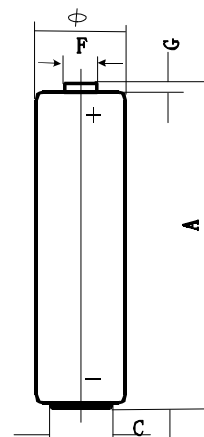
Zn/KOH-H₂O/MnO₂

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 ± 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 ± 2 °C & RH $90 \pm 5\%$, then store 4~24 h under 20 ± 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 ± 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 ± 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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