



EVERGREEN (C.P.) USA INC.

TEL: (650) 952-8091

FAX: (650) 952-3629

E-MAIL: sales@evergreencpusa.com

SPECIFICATIONS ALKALINE 'C' SIZE LR14

Technology specification

1 · Summary

This specification defines the Technology for Alkaline cells LR14

1.1 Type

IEC : LR14 Other : C

JIS : AM-2

1.2 Reference standard

IEC 60086-1 (2006-12) --- Primary Batteries - Part 1: General

IEC 60086-2 (2006-12) --- Primary Batteries - Part 2: Physical and electrical specification

1.3 Execution standard

GB/T 8897.2-2008

2 · Chemistry composition

Zinc、EMD、Potassium hydroxide、Graphite 。

***0.00% Mercury & Cadmium**

3. Normal voltage : 1.5V

4. Average weight : 70g

5. Normal capacity

6700MAh (Test condition : Load Resistance (±0.5%) 10.0Ω , Time: 4h/d, E.P.V=0.9V, Temperature: 20±2°C.)

6. Electrical performance

(Test condition : Load Resistance (±0.5%) 5.0Ω , Time: 0.3s, Temperature: 20±2°C 。)

	O. C. V (V)	C. C. V (V)	Accept Level
≤ 30 days after delivery	1.58	1.45	MIL-STD105E · II , AQL=0.4
45°C for 3 months	1.56	1.40	
Normal temperature for 12 Months	1.56	1.40	

7 · Service Life

(Test condition: +20°C±2°C and 60±15%RH)

	Discharge Method			Minimum Average Duration		
	Load Resistance	Time	Cutoff Voltage(V)	≤ 30 days after delivery	45°C for 3 months	Normal Temperature for 12 Months
IEC Item	20Ω	4h	0.9	105h	95h	95h



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	6.8Ω	1h	0.9	33h	30h	30h
IEC Item	3.9Ω	1h/day	0.8	17h	15.3h	15.3h

Satisfaction Standard:

- 1) 9 pieces of battery will be tested for each discharging standard.
- 2) The result of the Minimum Average Duration from each discharging standard shall be equal to or more than the Minimum Average Duration requirement; and no more than one battery have a service output less than 80% of the specified requirement.
- 3) One re-test is allowed to confirm the previous result

8 • Leakage Resistance

Item	Condition	Test Duration	Result	Accept Level
Over Discharge Test	Test condition: +20°C ±2°C and 60±15%RH Load Resistor: 3.9Ω Time:24h/d	Discharge 48h	There shall be no deformation exceeding the specified dimensions, nor leakage recognized by human eye	N=30 , Ac=1,Re=2
High heat and humidity storage test	60 ±2°C Low 90% RH	30days		N=30 , Ac=1,Re=2

9. Marking

The label printing :

- (1) Type: LR14
- (2) Brand: **EVERGREEN**
- (3) Normal voltage : 1.5V
- (4) Polarity: "+" or "-"
- (5) Warning: Battery may explode or leak if recharged or disposed of in fire.

10 • Caution for use

- (1) Since the battery is not manufactured for recharging, there are risks of electrolyte leakage or causing damage to the device if the battery is charged.
- (2) The battery shall be installed with its "+" and "-" polarity in correct position, otherwise may cause short-circuit.
- (3) Short-circuiting, heating, disposing of into fire and disassembling the battery are prohibited.
- (4) Battery cannot be forced discharged, which lead to excess gassing and, may result in bulging, Leakage and de-crimping of cap.
- (5) New and used batteries cannot be used at the same time, when replaced batteries recommend to replace all and with the same brand type.
- (6) Exhausted batteries should be removed from compartment to prevent over-discharge, which Cause leakage damage to the device.
- (7) Direct soldering is not allowed, which will damage the battery.
- (8) Battery should be kept out of the reach of children to prevent swallow, in case of accident should contact physician at once.

11 • Shelf life : 3 years after delivery under proper storage conditions.

(Temperature: 20+/-2° C; Relative humidity: 65+/-20%RH)



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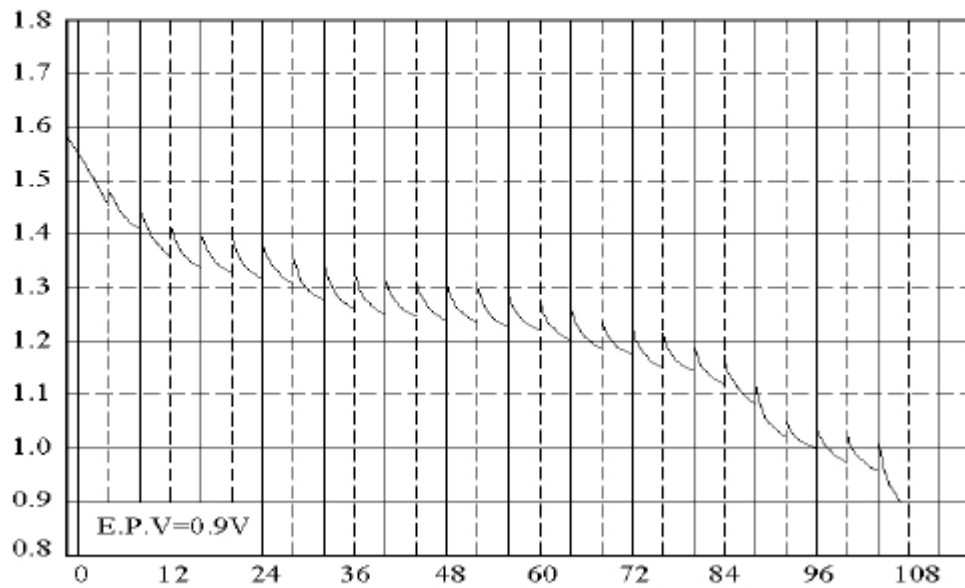
12 · Discharge curve (Figure : 1, Figure : 2)

13 · Dimensions (Figure : 3)

Discharge Method: 20 ohm; Period: 4 h/d

Temperature: 20+/-2°C

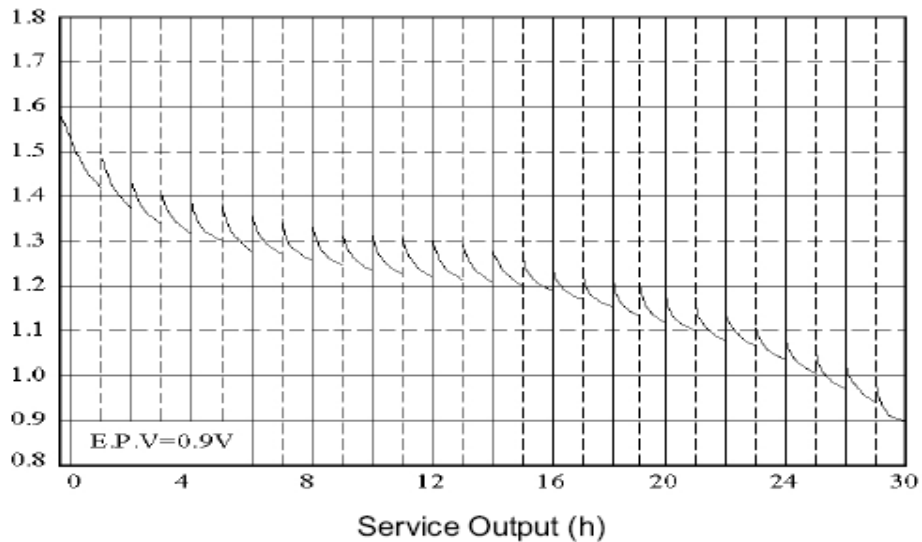
Terminal Voltage (V)



Discharge Method: 6.8 ohm; Period: 1 h/d

Temperature: 20+/-2°C

Terminal Voltage (V)





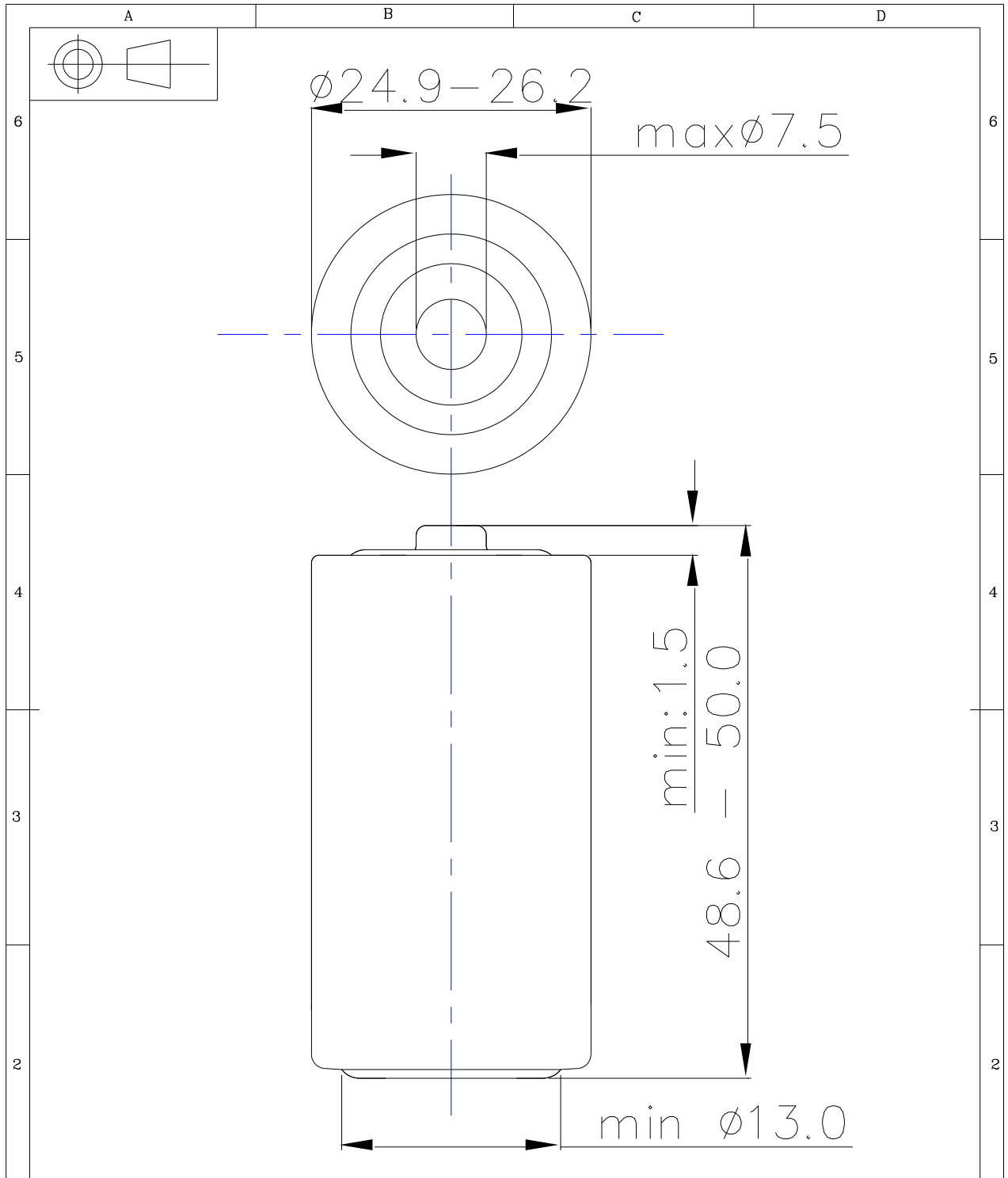
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**SPECIFICATIONS
ALKALINE 'C' SIZE LR14**



Type	LR14				
Draw Name	LR14 DIMENSION				
Draw No.	Version	C	Scale	NTS	

1 The tolerance must be required as following if it is not pointed out in the drawing.

0.000	±0.005
0.00	±0.01
0.0	±0.2

Signer	Date
Draw	
Design	
Check	
Approval	

[Signature Box]	
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