



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 ($\pm 0.5\%$) 10.0 Ω , Time: 4h/d, E.P.V=0.9V,Temperature: 20 $\pm 2^{\circ}\text{C}$.)

6. Electrical performance

(Test condition : Load Resistance ($\pm 0.5\%$) 5.0 Ω , Time: 0.3s, Temperature: 20 $\pm 2^{\circ}\text{C}$ 。)

	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 $^{\circ}\text{C}$ for 3 months	1.56	1.40	
Normal temperature for 12 Months	1.56	1.40	

7 • Service Life

(Test condition: +20 $^{\circ}\text{C}\pm 2^{\circ}\text{C}$ and 60 $\pm 15\%$ RH)

	Discharge Method			Minimum Average Duration		
	Load Resistance	Time	Cutoff Voltage(V)	≤ 30 days after delivery	45 $^{\circ}\text{C}$ for 3 months	Normal Temperature for 12 Months
IEC Item	20 Ω	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℃ ±2℃ and 60±15%RH Load Resistor: 3.9 Ω 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℃ 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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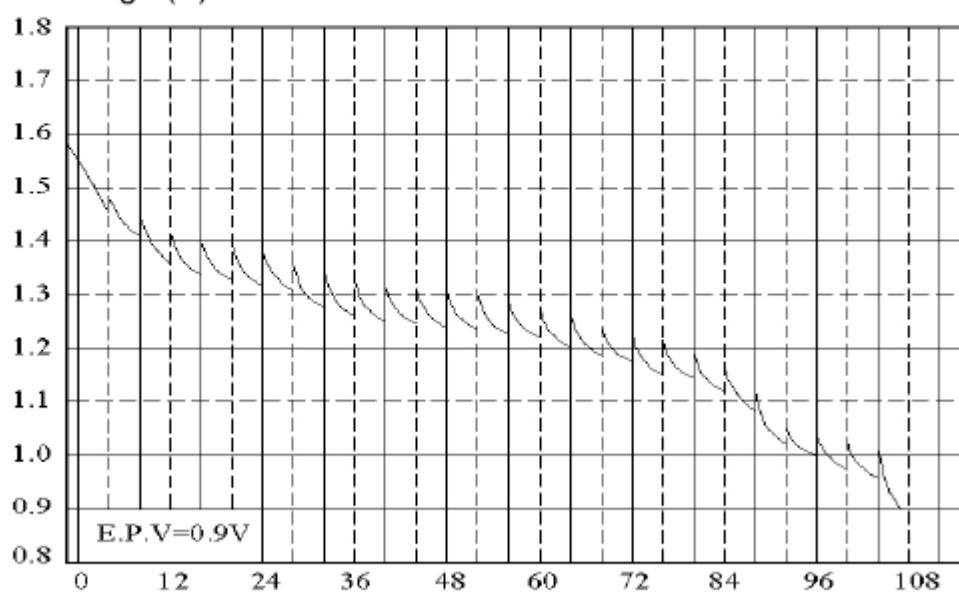
12 · Discharge curve (Figure : 1, Figure : 2)

13 · Dimensions (Figure : 3)

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

Temperature: 20+/-2°C

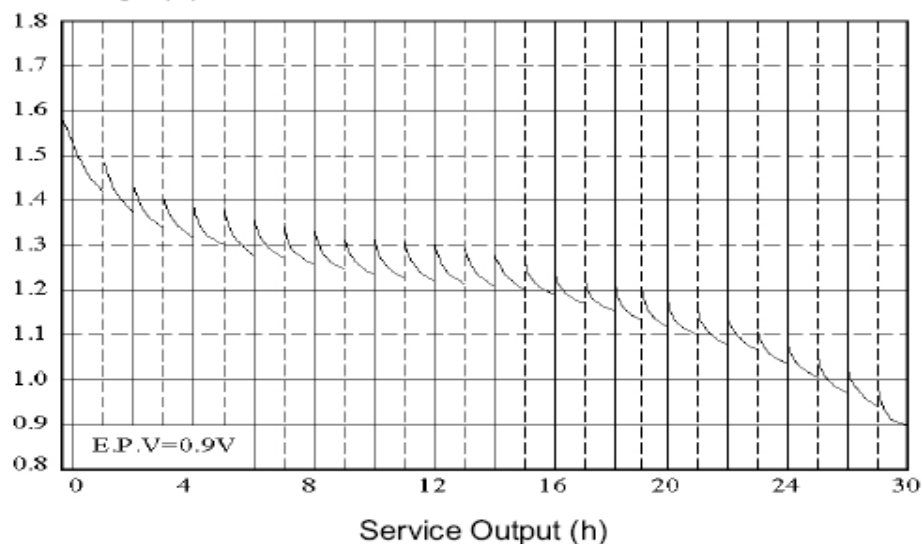
Terminal Voltage (V)



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

Temperature: 20+/-2°C

Terminal Voltage (V)





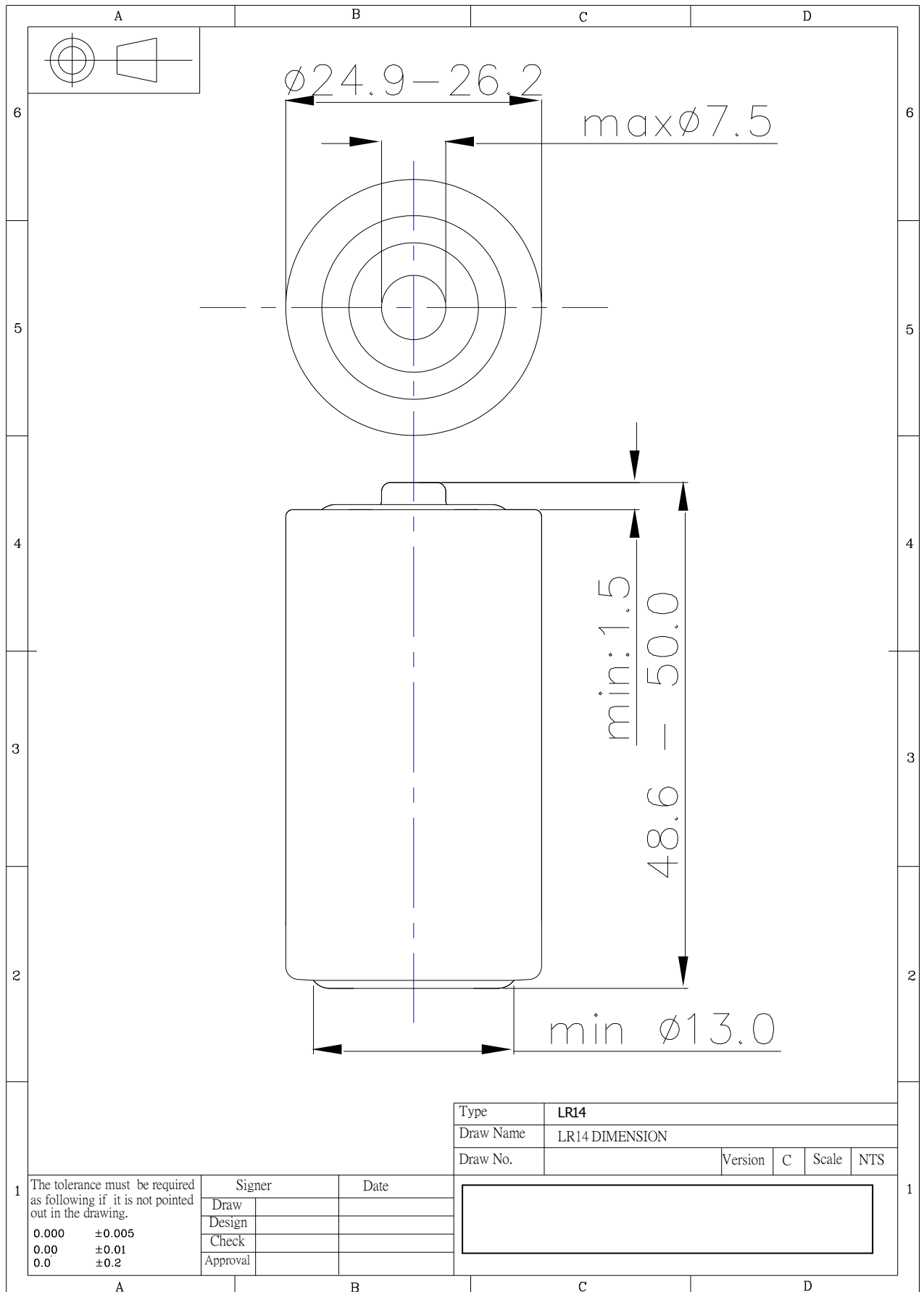
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