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℃.）

6. Electrical performance

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

	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℃ for 3 months	1.56	1.40	
Normal temperature for 12 Months	1.56	1.40	

7 · Service Life

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

	Discharge Method			Minimum Average Duration		
	Load Resistance	Time	Cutoff Voltage(V)	≤ 30 days after delivery	45℃ 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℃ ±2℃ 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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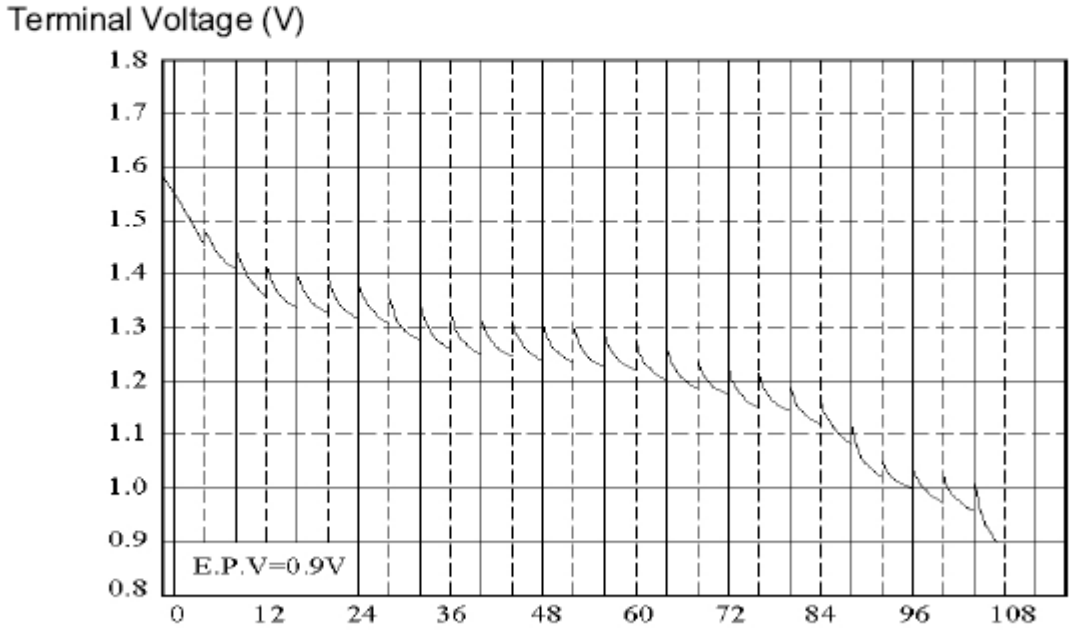
12 · Discharge curve （Figure：1, Figure：2）

13 · Dimensions （Figure：3）

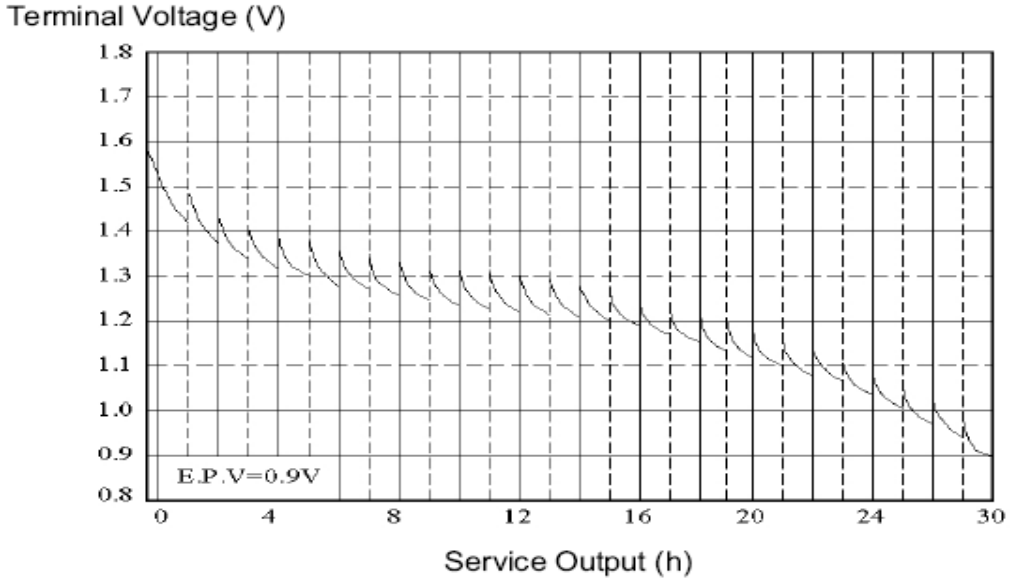
Discharge Method: 20 ohm; Period: 4 h/d

Temperature: 20+/-2°C



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

Temperature: 20+/-2°C



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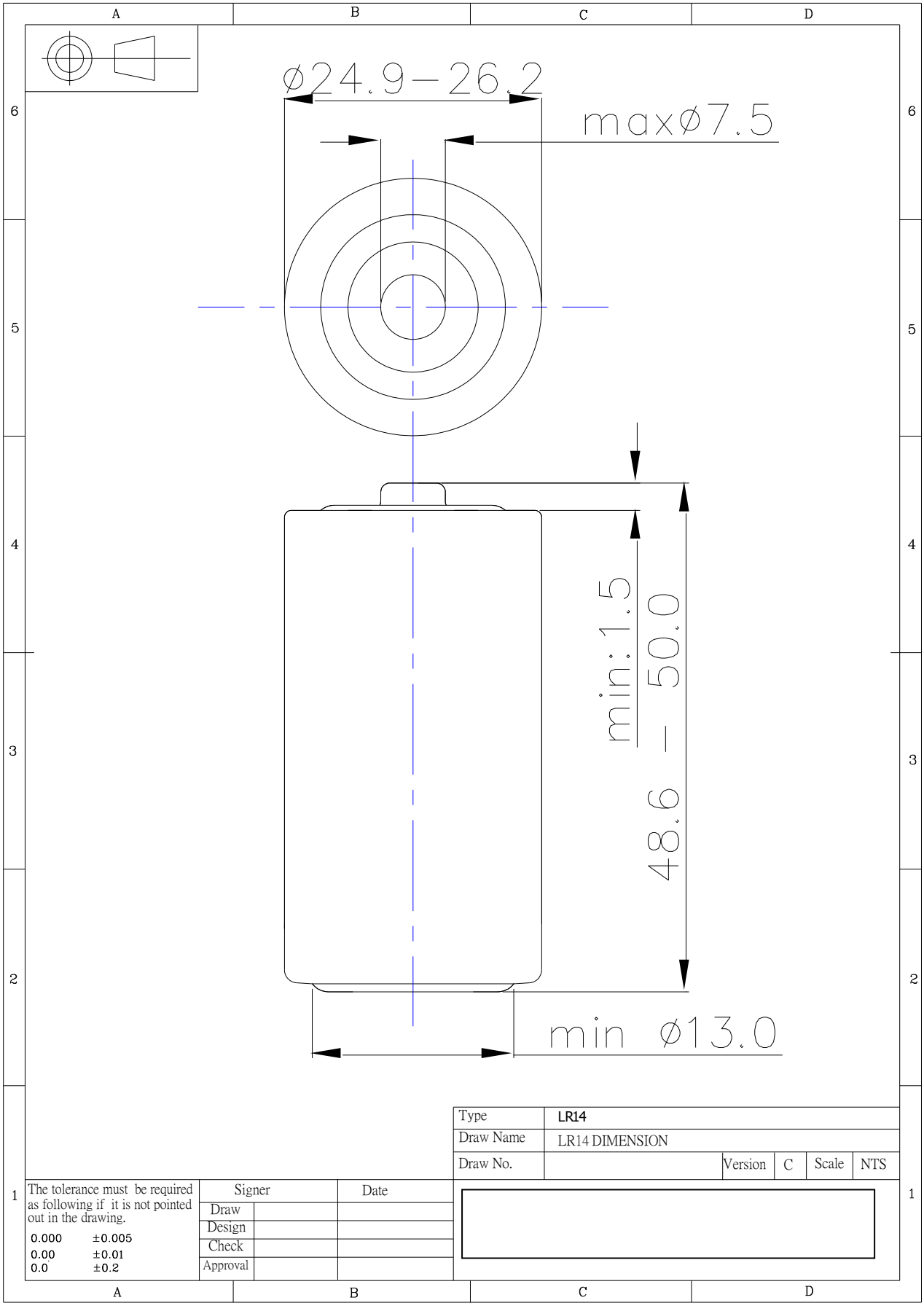

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