

SHENZHEN PKCELL BATTERY CO., LTD

LR14

Specifications for Non-Hg Alkaline Battery

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Product Model: PKCELL-LR14-C

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KCELL SHENZHEN PKCELL BATTERY CO., LTD

Specifications for Non-Hg LR14 Alkaline Battery

1 **Product Model**

LR14 C AM-2

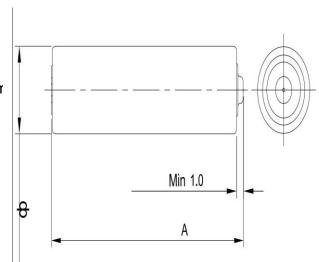
2 **Chemical System**

Alkaline battery (Non-Hg, Non-Cadmium

Specification (mm) 3

> Total Length A: 48.6 50.0 External diameter ф: 24.9 \square 26.2

4 Nominal Voltage: 1.5V



5 **Storage Performance**

> After 12 months storage at specified conditions, discharge capacity should be no less than 90% of the original discharge capacity.

6 Mercury Content: Less than 1ppm

Electrical Performance $(3.9\Omega \ 0.3S \ 20\pm2^{\circ}C)$ 7

/	Open Circuit	Closed Circuit	Short Circuit Current		
	Voltage (V)	Voltage (V)	(A)		
Initial period	Above 1.62	Above 1.45	Above 7		
.After 12 months	Above 1.58	Above 1.43	Above 6		

8. Discharge Capacity (20±2°C, RH: 45% \sim 75%)

Standard	Discharge Condition			Averge Minimun Discharge time		
	discharge Load	Discharge Time	E.P.(V)	New Battery	After 3	after 12
					mths at	mths.at room
					45 ℃	temperature
IEC	6.8Ω	1H/D	0.9v	34H	30H	30H
IEC	3.9Ω	1H/D	0.8V	19H	17H	17H
IEC	3.9Ω	8H/D	0.9V	17H	15.5H	15.5H

Pls check the sketch map as following

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9. Performance

(1) Spillage proof test at over-discharge

The number of samples: 9

Test condition: $20\pm2^{\circ}$, relative humidity 45%-75% Test method: 6.8Ω continuous discharge at 48h

Requirements: no spillage at eyesight, the distortion of total height of the battery will not exceed 0.2mm, the max allowable value.

Standard: 0/9

(2) Spillage proof test at high temperature

The number of samples: 20

Test condition: 45±2℃, relative humidity 85%-95%

Test method: Under the prescriptive test conditions, the samples are stored for 30 days. Then they are took out and placed under $20\pm2^{\circ}$ °C, relative humidity 45%-75% conditions for 4 to 24 hours for observation.

Requirements: no spillage at eyesight, the distortion of total height of the battery will not exceed 0.2mm, the max allowable value.

Standard: 0/20

10. Safety performance

The performance of explosion protection due to the external short circuit

The number of samples: 10

Test condition: 20±2℃, relative humidity 45%-75%

Test method: Under the prescriptive test conditions, external short circuit lasts for 24 hours Requirements: no separation occurs between the negative terminal and the body of the

battery.

Standard: 0/10

11.Guarantee period: 3 years

12. Label on the product:

The following items are labeling on the battery surface:

- (1) Model: LR14
- (2) Trademark: PKCELL
- (3) Nominal voltage: 1.5V
- (4) Polarity: "+""—"
- (5) Precautions: Do not attempt to recharge a battery, and Do not dispose of batteries in fire.
- (6) Manufacturer: Pkcell

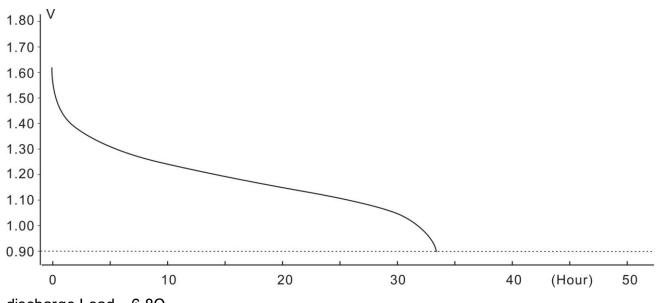


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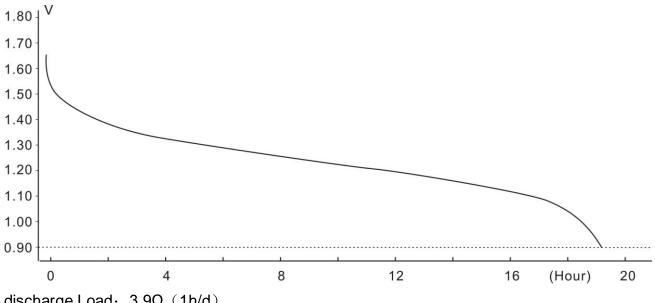
13. Precautions of use:

- (1) Since the battery is not manufactured for recharging there are risks of eletrolyte 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, other wise may cause short-circuit.
- (3) Short-circuit, heating, disposing of into fire and disassembling the battery are prohibited.
- (4) Battery cannot be forced discharged, which lead to excess gassing and may resul 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 leakgae damage to the device.
- (7) Direct soldering is not allowed, which will damage the battery.
- (8) Battery shoul be kept out of the reach of children to prevent swallow,in case of accident should contact physician at once.

Schematic diagram of discharge:



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discharge Load: 3.9Ω (1h/d)

