

PKCELL

SHENZHEN PKCELL BATTERY CO., LTD

LR6

Specifications for Non-Hg Alkaline Battery

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Product Model: PKCELL-LR6-AA

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(The manufacturer keeps privilege to modify the product specifications and data without notice)

Specifications for Non-Hg LR6 Alkaline Battery

1 Product Model

LR6 AA AM-3

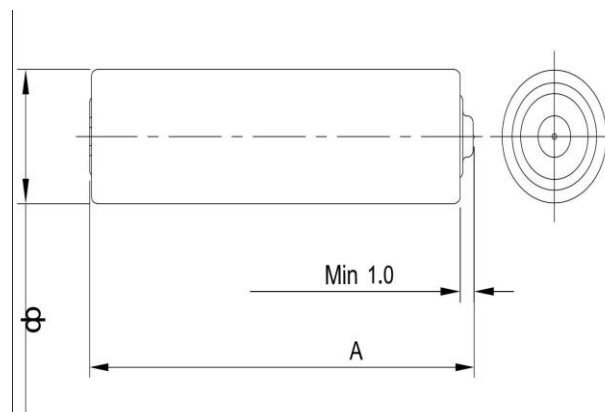
2 Chemical System

Alkaline battery
(Non-Hg, Non-Cadmium)

3 Specification (mm)

Total Length A : 49.2~50.5
External diameterφ: 13.5~14.5

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

7 Electrical Performance (3.9Ω 0.3S 20±2℃)

/	Open Circuit Voltage (V)	Closed Circuit Voltage (V)	Short Circuit Current (A)
Initial period	Above 1.62	Above 1.45	Above 7.0
After 12 months	Above 1.58	Above 1.43	Above 6.0

8. Discharge Capacity (20±2℃, RH: 45%~75%)

Standard	Discharge Condition			Average Minimum Discharge time		
	discharge Load	Discharge Time	E.P.(V)	New Battery	After 3 mths at 45 °C	after 12 mths.at room temperature
IEC	10Ω	24H/D	0.9v	19H	17H	17H
IEC	10Ω	1H/D	0.9V	18H	16.5H	16.5H
IEC	3.9Ω	1H/D	0.8V	7.2H	6.4H	6.4H

Pls check the sketch map as following

9. Performance

(1) Spillage proof test at over-discharge

The number of samples: 9

Test condition: $20\pm 2^{\circ}\text{C}$, relative humidity 45%-75%

Test method: 10 Ω 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: $45\pm 2^{\circ}\text{C}$, relative humidity 85%-95%

Test method: Under the prescriptive test conditions, the samples are stored for 30 days. Then they are taken out and placed under $20\pm 2^{\circ}\text{C}$, 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: $20\pm 2^{\circ}\text{C}$, 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: LR6

(2) Trademark: PKCELL

(3) Nominal voltage: 1.5V

(4) Polarity: “+” “—”

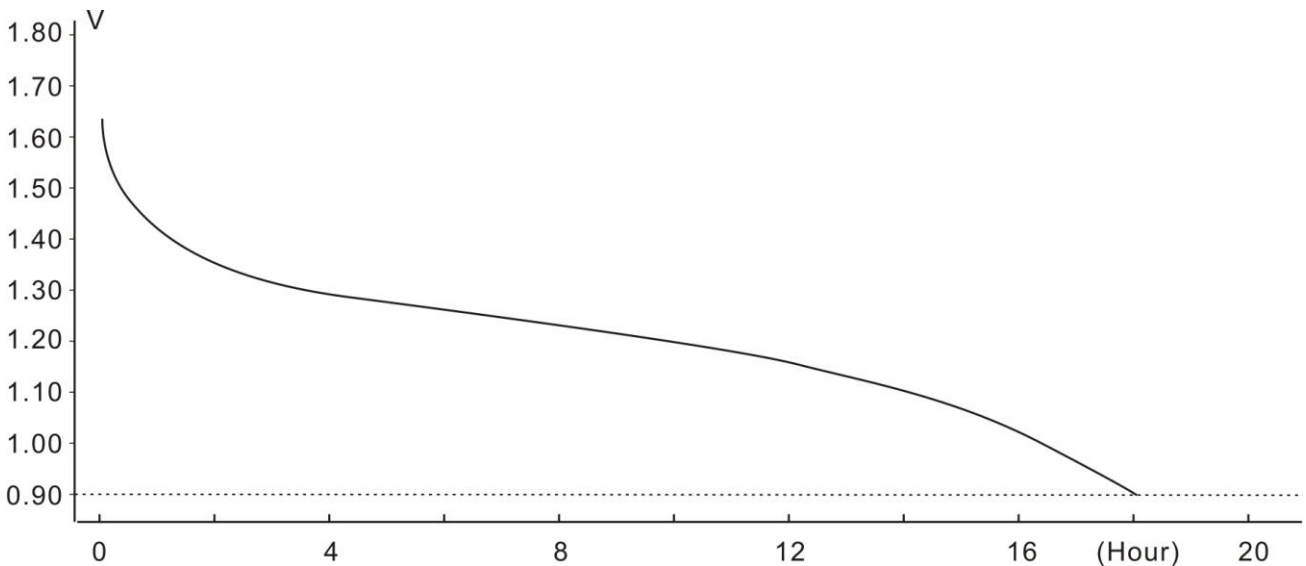
(5) Precautions: Do not attempt to recharge a battery, and Do not dispose of batteries in fire.

(6) Manufacturer: Pkcell

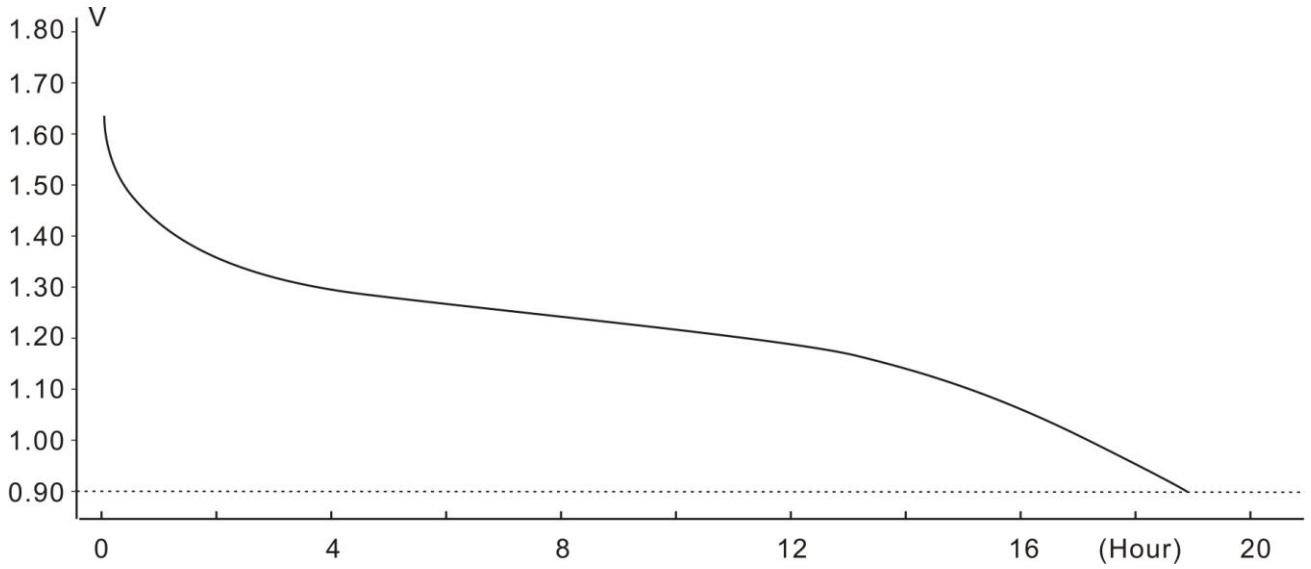
13. Precautions of use:

- (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-circuit, heating, disposing of into fire and disassembling the battery are prohibited.
- (4) Battery cannot be forced discharged, which leads 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 causes 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.

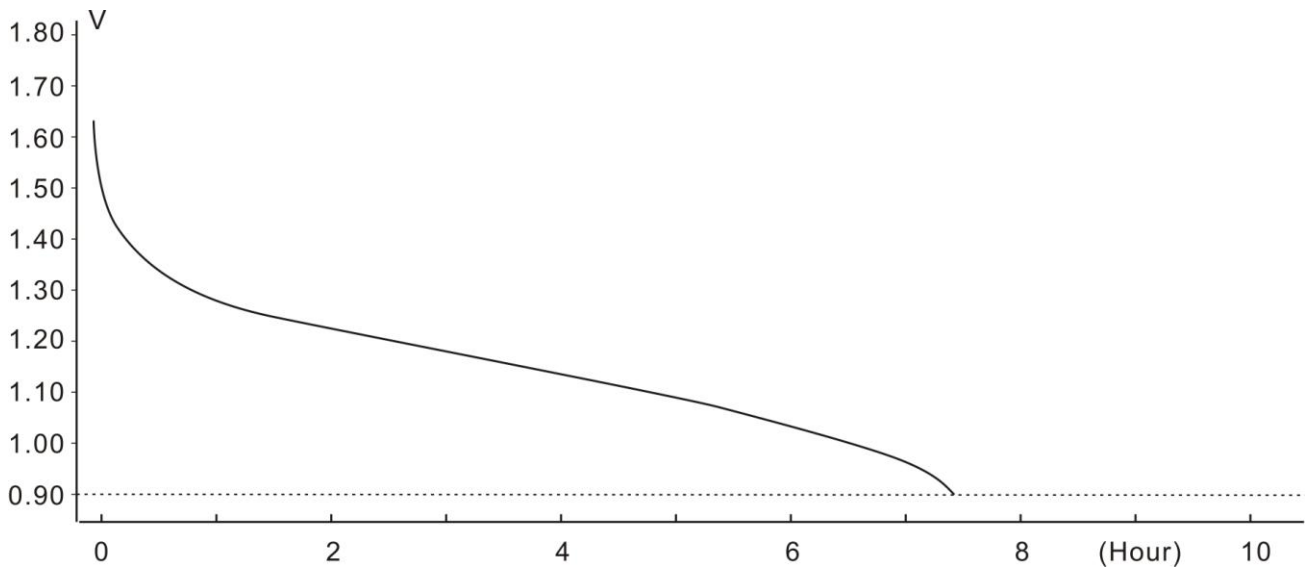
Schematic diagram of discharge:



discharge Load: 10Ω(1H/D)



discharge Load: 10Ω(24H/D)



discharge Load: 3.9Ω