

PKCELL

SHENZHEN PKCELL BATTERY CO., LTD

R03

Specifications for heavy duty Battery

Compiled by: Zhijiang Li

Checked by: Beiqian Ding

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Product Model: PKCELL-R03-AAA

Website: www.pkcell.net

E-mail: pkcell@pkcell.net

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

Specifications for heavy duty Battery

1 Product Model

R03 AAA UM-4

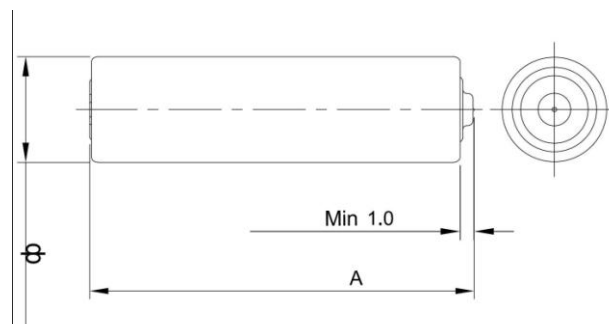
2 Chemical System

heavy duty battery

3 Specification (mm)

Total Length A: 43.3~44.5

External diameter ϕ : 9.5~10.5



4 Nominal Voltage: 1.5V

5 Storage Performance

After 6 months storage at specified conditions, discharge capacity should be no less than 70% of the original discharge capacity.

6 Mercury Content: Less than 0.025%

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

/	Open Circuit Voltage (V)	Closed Circuit Voltage (V)	Short Circuit Current (A)
Initial period	Above 1.60	Above 1.20	Above 2
After 12 months	Above 1.58	Above 1.15	Above 1.8

8. Discharge Capacity (20±2°C, 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
IEC	3.9Ω	24H/D	0.9V	20min	17min

Pls check the sketch map as following

9. Performance

(1) Spillage proof test at over-discharge

The number of samples: 9

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

Test method: 3.9Ω continuous discharge at 0.6V

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: $40\pm 2^{\circ}\text{C}$, 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. Guarantee period: 1 years

11. Label on the product:

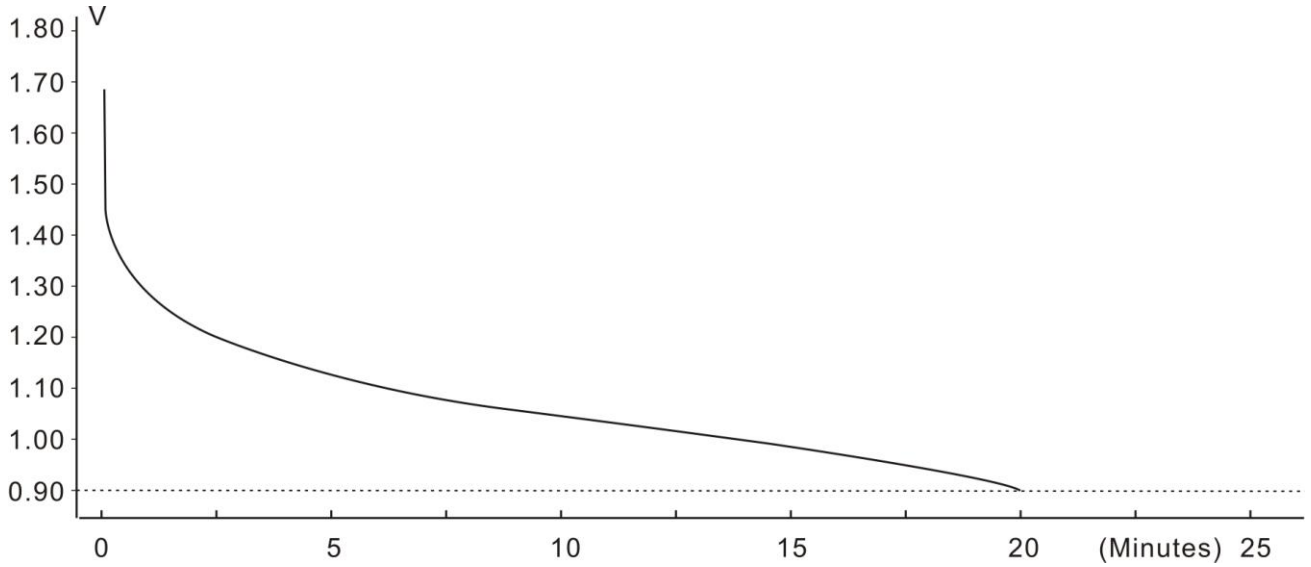
The following items are labeling on the battery surface:

- (1) Model: R03
- (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

12. 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: 3.9Ω