

Shenzhen Kunteng Co., Ltd

R14P

Specification for Non-Hg Super Heavy Duty Battery

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Product Model: TINKO-R14P-A

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

Specification for Non-Hg Super Heavy Duty Battery

1 Product Model

R14P C UM-2

2 Chemical Systems

Zinc-Manganese Dioxide (Non-Hg, Non-Cadmium)

3 Specification (mm)

Total Length A : 48.6~50.5

External diameter ϕ : 24.9~26.2

4 Nominal Voltage: 1.5V

5 Storage Performance

After 12 months storage at specified conditions, discharge capacity should be no less than 80% of the original discharge capacity.

6 Mercury Content: $\leq 1\text{ppm}$

7 Electrical Performance (3.9 Ω , 0.3S, 20 \pm 2 $^{\circ}$ C)

/	Open Circuit Voltage (V)	Closed Circuit Voltage (V)	Short Circuit Current (A)
Initial period	Above 1.65	Above 1.50	Above 6.0
After 12 months	Above 1.60	Above 1.45	Above 5.0

8 Discharge Capacity (20 \pm 2 $^{\circ}$ C, RH: 45%~75%)

Load	3.9 Ω	6.8 Ω
Discharge way	24h/d	1h/d
Final voltage	0.9V	0.9V
Initial period	260min	11.0h

9 Performances

(1)Spillage proof test at over-discharge

The number of samples: 9

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

Test method: 3.9 Ω continuous discharge at 0.35V

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

External short-circuit explosion-proof performance

The number of sample: 10

Test Condition: $20 \pm 2^\circ\text{C}$ RH: 45%-75%

Test method: Under the perspective test conditions external short-circuit 16h.

Requirement: No phenomena of separation between negative connector and battery body.

Standard: 0/10

11. Guarantee: 2 years

12. Label on the product:

The following items are labeling on the battery surface.

(1) Model: R14P

(2) Trade Mark: TINKO

(3) Nominal Voltage: 1.5V

(4) Polarity: “+” “—”

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

(6) Manufacturer: Tinko Power

13. Precautions of use:

(1) The battery is designed not to be recharged, the forced recharge will result in the spillage or the risk of equipment damage.

(2) The labels “+”/ “—” for the battery should be installed correctly according to the directions specified by the equipment to be used.

(3) Short circuit, heating, burning and unsealing for the battery are forbidden.