SHENZHEN KUNTENG CO., LTD

Product Specifications

Model No.: 6F22 9V

1. APPLICABILITY

This specification is applicable to TINKO Carbon Battery, 6F22 (Mercury Free).

2. GENERAL

2.1 Type designation : 6F222.2 Nominal voltage : 9V

2.3 Dimension : height: 48.5-46.5mm

Length: 26.5-24.5mm Width: 17.5-15.5mm

2.4 Typical weight : 36.5g 2.5 Shelf life : 18months

2.6 Date code : Unless otherwise specified, every

Battery will carry an expiry date code

For 24 months. (E.g. a battery manufactured on January 2000 will carry an expiry code

of 06-2002.)

2.7 Jacket : Metal jacket

2.8 Mercury Content : ≤1ppm

3. APPEARANCE

There shall be no dirt, scratch or deformation detrimental to practical service in appearance.

4. TEST METHOD

4.1 Electrical

Test temperature : $20 \pm 2^{\circ}$ C

4.2 Off Load Voltage

At shipping	12 months after manufactured
Above 8.6V	Above 8.2V

4.3 On Load Voltage

Initial	12 months after manufactured
Above 9.6V	Above 8.2V

Load resistance: 180 ohm \pm 0.5% (measure time: 0.3 seconds)

٠,

SHENZHEN KUNTENG CO., LTD

Product Specifications

Model No.: 6F22 9V

5. SERVICE OUTPUT

- 5.1Test method
 - (1) The resistance of external discharge circuit shall be as specified plus or minus 0.5%.
 - (2) The duration of discharge time periods shall be as specified plus or minus 1%.
 - (3) Storage shall be at 20 ± 2 °C, 65 ± 15 %RH and discharge tests shall be at 20 ± 2 °C, 65 ± 15 %RH.
- 5.2 Property (Continuous discharge)

	Service Output		
Resistance	Initial		12 months after manufactured
	Minimum Average	Typical	Minimum Average
180Ω ,24h/d (end volt = 4.8V)	220mins	240mins	220mins
620Ω ,24h/d (end volt = 5.4V)	24h	25h	24h

Test temperature: $20\pm2^{\circ}$ C H: Hour /mins Relative humidity: $60\pm15\%$

5.3 Operating temperature: -20° C to 54° C ($65\pm15\%$ RH)

5.4 Storage temperature: -30° C to 55° C ($65\pm 15\%$ RH)

6 Performances

(1)Spillage proof test at over-discharge

The number of samples: 9

Test condition : 20 ± 2 °C, relative humidity 45%-75% Test method : 180 °C continuous discharge 24 hours.

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 : $45 \pm 2^{\circ}$ °C, 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 $20\pm2\,^{\circ}\mathrm{C}$, 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

SHENZHEN KUNTENG CO., LTD

Product Specifications

Model No.: 6F22 9V

7. Safety Performance

External short-circuit explosion-proof performance

The number of sample: 10

Test Condition : 20 ± 2 °C RH: 45%–75%

Test method: Under the prespective test conditions external short-circuit 24h.

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

Standard: 0/10

8. PACKAGING

Packaging shall be a form agreed by both parties.

PRECAUTION & HANDLING

- (1) Do not disassemble or short-circuit batteries.
- (2) Do not recharge batteries.
- (3) Do not dispose of batteries in fire.
- (4) Do not allow metal objects to contact the battery terminals.
- (5) Do not mix with used or other battery type (such as alkaline with carbon zinc).
- (6) Do not solder the batteries directly. If soldering or welding connection to the battery is required, consult our engineer for proper methods.
- (7) Do not over-discharge batteries. Force discharging batteries by external power source in a series may cause explosion.
- (8) To install or remove batteries, follow the appliance manufacturer's instructions.
- (9) Keep battery away from small children. If swallowed, consult a physician at once.
- (10) Remove batteries from device when it is not in use.

STORAGE

- (1) Store in cool, dry place before use.
- (2) Do not keep batteries at temperature of 55° C or above.
- (3) Do not keep batteries at relative humidity of 85% or above.

Marker

The label printing:

- (1) Type: 6F22
- (2) Brand: **知底**
- (3) Normal Voltage: 9V
- (4) Polarity: "+" or "-"

Period of validity : 18month (Normal Temperature)