

**SPECIFICATION**  
**6F22**  
**HEAVY DUTY BATTERY**

## SPECIFICATION

1. **Type:** 6F22

2. **Chemical Ingredient:** Manganese dioxide (positive)

Zinc shell (negative)

Zinc chloride (electrolyte)

3. **Standard Voltage:** 9V

4.

5. **Average Weight:** 36.±0.5g

6.

5. **Normal Capacity:** (Conditions: measuring temperature: 20 ±2℃, Relative humidity:60±15%)

Conditions	180Ω24h/day, cut-off voltage 4.8V	270Ω1h/day, cut-off voltage 5.4V	620Ω2h/day, cut-off voltage 5.4V
mAh	150	230	280

6. **Electrical Characteristic :** ( Conditions: Open Circuit Voltage: the accuracy of current voltmeter no less than±0.25%, and no less than 50% of the last significant figure .

The internal resistance no less than 1MΩ.The error between the load resistance and rated value not more than ±0.5%, measuring time 0.2 ±0.01 sec) .

Item	Open Circuit Voltage (V)	Load Voltage (V)
New battery	≥9.5	≥8.8
Battery stored for 12 months at normal temperature	≥9.0	≥8.0

7. **Discharge performance** (Conditions: measuring temperature: 20 ±2℃, Relative humidity:60±15%)

Condition	180Ωcontinuous discharge; cut-off voltage 4.8V	270Ωintermittently discharge one hour a day; cut-off voltage 5.4V	620Ωintermittently discharge 2 hours a day; cut-off voltage 5.4V
New Battery	220min	8.0h	23h
Battery stored for 12 months at normal temperature	200min	6.4h	20.8h

## 8.Tests for leakage proof performance

Item	Condition	Period	Remark
When overdischarged	180Ωcontinuous discharge Temperature:20℃±2℃ Relative humidity:60±15%	After reaching cut-off voltage, discharge continuously to 3.6V	Deformation not larger than the size shown in Fig.1. No leakage.
When stored	Temperature:45℃±2℃ Relative humidity:60±15%	30 days	

---

## 9. Safety feature:

- (1) No expansion and explosion when discharge 48hours continuously with 620 $\Omega$ resistance.
- (2) No leakage and explosion when stored at the temperature of 50℃ $\pm$ 2℃ and the relative humidity of 60 $\pm$ 15% for 10 days.

## 10. Marks on the batteries

- (1) Type: 6F22
- (2) Brand: Tcbest
- (3) Standard Voltage: 9V
- (4) Polarity: Positive (+) Negative(- )
- (5) Warning: Charged or thrown into the fire may cause leakage or explosion.

## 11. Warning:

- (1) Don't charge the battery or it may cause leakage or explosion.
- (2) Observe polarity ,do not disassemble.
- (3) No short circuit, heating, putting the battery into fire or breaking up of the battery.

12. Guarantee Period: two years.

13. Battery dimension graph (Fig.1) and Battery structure graph (Fig.2)

14. Battery metal jacket design graph (Fig.3)

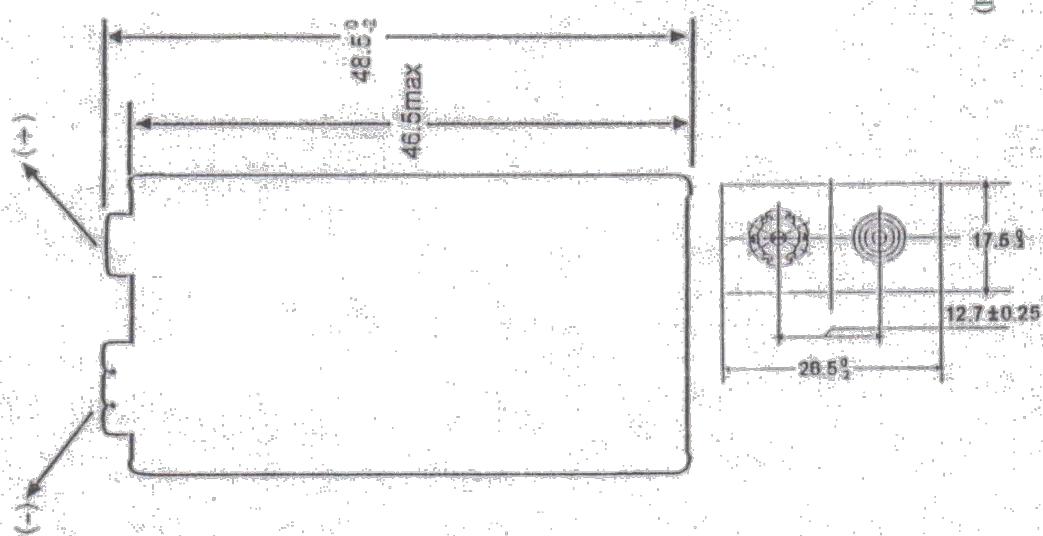
15. Packing Information

TYPE	Standard packing			Carton		
	Shrink pack	Inner box	Carton	N. W. (kg)	G. W. (kg)	Measure (cm)
6F22	1	10	500	19	20	27.5 x 27.5 x 20

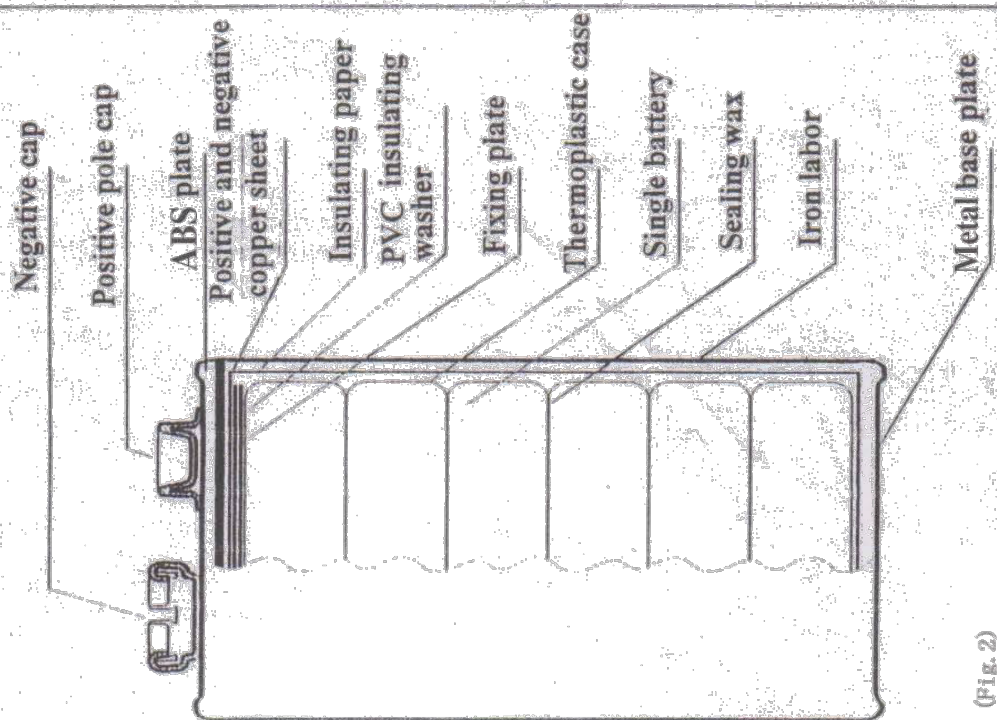
## 16. Safety Precaution of Zinc-Manganese Batteries



The Overall Dimension and structure Diagram of 6F22 Battery



(Fig. 1)



(Fig. 2)

# Safety Precaution of Zinc-Manganese Batteries

Please follow the warnings and precautions listed below to avoid possible hazards from the improper use of Carbon Zinc Batteries and to ensure correct and safe use of them.

The following notes should be put in an appropriate and effective location in each end-use product and its instruction manual.

Failure to observe the following instructions may cause battery leakage, heat generation, explosion, injury or damage of appliance.

## **Warning**

- (1) Keep the battery out of reach of babies or small children .If the battery is Swallowed, consult a doctor immediately.
- (2) If any liquid from the battery comes out and contacts with eyes, flush out with clean water immediately and consult a doctor .
- (3) If any liquid from the battery is licked, gargle immediately and consult a doctor.
- (4) Do not short-circuit, disassemble, heat or put the battery into a fire.
- (5) Charging of Zinc-Manganese Battery may cause electrolyte leakage or damage ,because this type of battery is not designed as rechargeable battery .

## **Caution**

- (1) Do not reverse the positive (+) and negative(-) terminals when a battery is installed.
- (2) If liquid solution from the battery comes out and contacts with skin or clothes, flush out with clean water.
- (3) Do not use the batteries mixed with new battery, old battery or different type battery .
- (4) The appliance must be sure closed the power supply after used, the used batteries must be taken out.
- (5) Do not expose the battery to the rain or at moisture situation. It is mistake to put the battery beside the heating or in the sunlight.
- (6) When not in use for a long time, take out the battery from the appliance and store in a cool dry place.
- (7) In case of storage or throw away the battery, insulate a terminal of the battery with a tape.
- (8) Do not drop, give a strong shock or deform the battery.
- (9) Do not solder the battery directly.
- (10) Do not leave the batteries in an atmosphere over the temperature of 30°C or over the humidity of 95% below the humidity of 40% for a long time.