

6F22



TECHNICAL SPECIFICATION FOR GREENERGY CARBON ZINC BATTERY

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APPROVED BY:

A handwritten signature in blue ink, appearing to be "彭小云" (Peng Xiaoyun), is written over the "APPROVED BY:" text.

DATE: 2014-12

SPEC.NO: Ref--6F22--E

1、Scope

The specification is applicable to WinPow GREENERGY CARBON ZINC BATTERY 23A.

1.1 Designations

Super Energy Group
6F22

IEC
6F22

Other
1604

1.2 Reference Document

IEC 60086-1: 2000

---Primary Batteries – General

IEC 60086-2: 2001

---Primary Batteries - Specification Sheets

GB/T8897.1—2003

---Primary Batteries – General

GB/T8897.2—2005

---Primary Batteries - Specification Sheets

2、Chemical System

Zinc-Manganese Dioxide (-) Zn | NH₄Cl+ZnCl₂ | MnO₂(+)

3、Nominal Voltage: 9 volt

4、Average Weight: 36 g

5、Nominal Capacity

310mAh (620Ω load resistance, discharge 2hours per day at 20±2℃, end 5.4V)

6、Electrical Characteristics

(Conditions : 620Ω load resistance, measuring time 0.3seconds, 20±2℃, tested within 30 days after delivery)

	Off-load voltage (V)	On-load voltage (V)	Acceptance Standard
New battery	9.6	9.0	MIL-STD105E, Class II, Double Sampling, AQL=0.4
After 12 mon. room temp.	9.4	8.8	

7、Service Output

(Conditions : Test temp. 20±2℃, tested within 30 days after delivery.)

	Discharge Condition			Average Minimum Discharge Time	
	Discharge Load	Daily Discharge time	End Point Voltage(V)	New battery	After 12mth.at room temp.
Reference	620 Ω	24h	5.4	19h	17h
	180 Ω	24h	4.8	230min	210min

Acceptance Standard:

- (1) 9 pieces of battery will be tested for each discharging standard .
- (2) The result of the average discharging time from each discharging standard shall be equal to or more than the average minimum time requirement.

8、Electrolyte Leakage Proof Characteristics

Item	Condition	Periods	Characteristics	Acceptance Standard
Over-discharge Characteristics	20k Ω continuous discharge at temp. $20\pm 2^{\circ}\text{C}$, Relative Humidity : $65\pm 20\%\text{RH}$	End Point Voltage 3.6V	There shall be no leakage or explosion recognized by human eye	N=40, Ac=1, Re=2

9、Marking

The following markings will be printed, stamped or impressed on the body of the battery:

- (1) Designation: 6F22;
- (2) Manufacturer's name or abbreviation:  ;
- (3) Nominal voltage: 9V ;
- (4) Polarity: "+" or "-";

10、Caution for 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 "-" in correct position.;
- (3) Short circuiting, heating, throwing into fire and disassembling the battery shall not be done. .

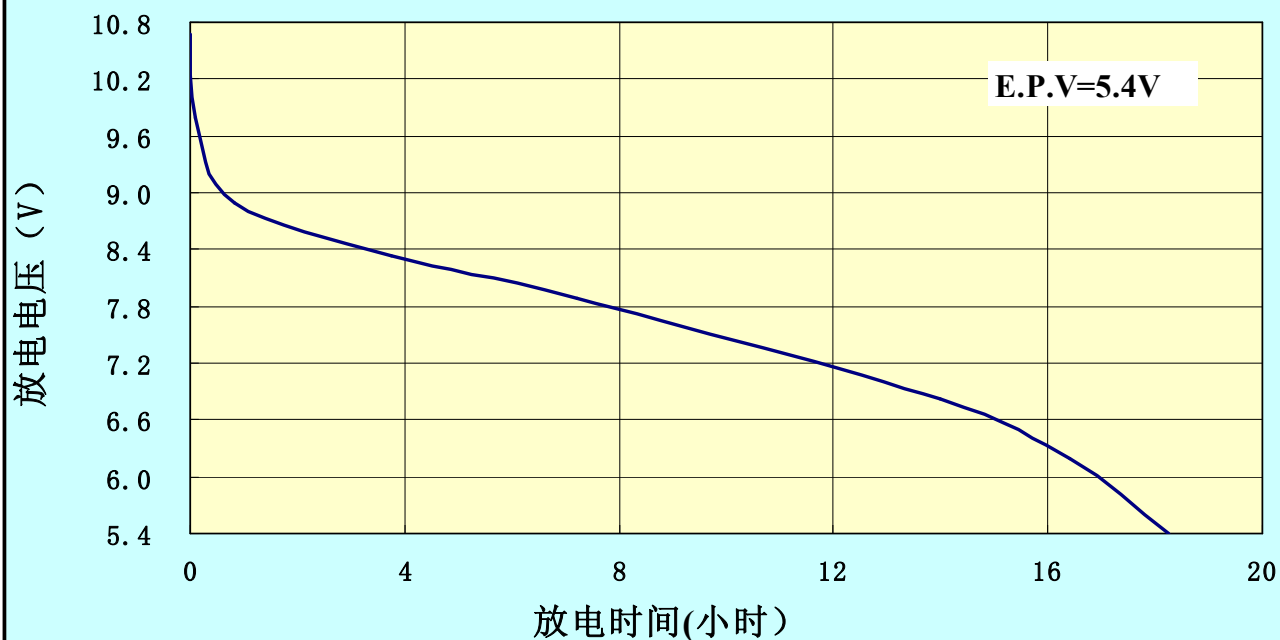
10、Discharge Curves: (Condition: Test temperature $20\pm 2^{\circ}\text{C}$)

Discharge Method : 620 Ω /180 Ω 24hrs/day (Figure 1、 2)

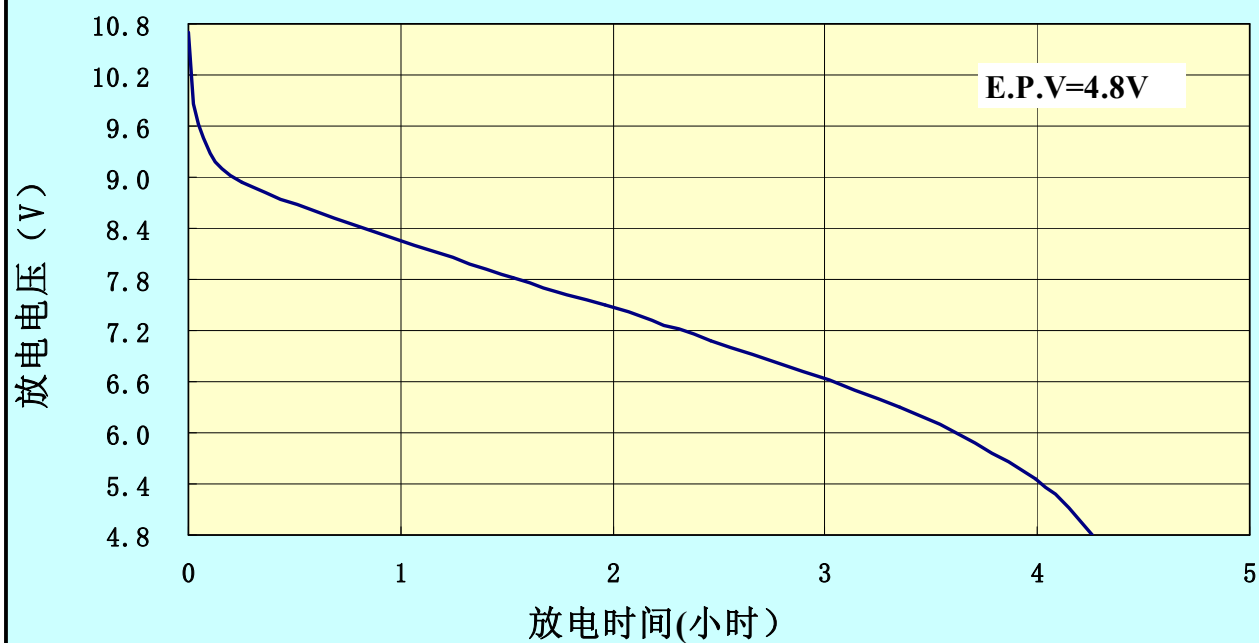
12、Battery Dimension and construction

Refer Drawing: DWG-A-6F22

图表1: 6F22电池负载620 Ω 放电曲线
24小时/天, 温度: $20 \pm 2^\circ\text{C}$



图表2: 6F22电池负载180 Ω 放电曲线
24小时/天, 温度: $20 \pm 2^\circ\text{C}$



Refer Drawing: DWG-A-6F22

