



GE6F22M

TECHNICAL SPECIFICATION FOR ZINC MANGANESE DIOXIDE BATTERY

DATE: 9/15/2005

SPEC. NO.: ES-GE6F22M

REVISION: 2005C

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The Manufacturer reserves the right to modify product specification and data stated herein without prior notice

1. Scope

This Specification is applicable to Golden Power's Greenergy Super Heavy Duty Battery Model No.:GE6F22M

1.1 Designations

Golden Power: GE6F22M IEC: 6F22 Others: 216
 JIS: S006P ANSI: 1604

1.2 Reference Document

IEC 60086-1 (2000-11) --- Primary Batteries - Part 1: General
 IEC 60086-2 (2001-10) --- Primary Batteries - Part 2: Physical and electrical specification
 IEC 60086-5 (2000-07) --- Primary Batteries - Part 5: Safety of batteries with aqueous electrolyte

2. Chemical System

Zinc-Manganese Dioxide (Ammonium Chloride Electrolyte)

*** MERCURY AND CADMIUM ARE NOT ADDED IN THE BATTERY**

3. Nominal Voltage: 9 V

4. Average Weight : 38.5 g

5. Nominal Capacity

370mAh (condition: 620Ω load resistance, discharge 2 hours per day at 20+/-2°C, end-point voltage 5.4V)

6. Electrical Characteristics

Test conditions: 620Ω+/-0.5% load resistance, measuring time 0.3 seconds,
 temperature at 20+/-2 °C, tested within 30 days after delivery.

	Off-Load Voltage (V)	On-Load Voltage (V)	* Flush current (A)	Test Specification
New Battery	9.60	9.30	---	MIL-STD 105E, Class II, Double Sampling, AQL=0.4
After 3 mths. at 45°C	9.40	9.10	---	
After 12 mths. room temp	9.40	9.10	---	

7. Service Output

Condition: Test temperature 20 +/- 2°C, tested within 30 days after delivery

Standard	Discharge Condition			Average Minimum Discharge Time		
	Discharge Load	Discharge Time	E.P.V. (V)	New Battery	After 3 mths. at 45°C	After 12 mths. at room temperature
IEC	620Ω	2 h/d	5.4V	28 h	25 h	25 h
IEC	270Ω	1 h/d	5.4V	9.5 h	9 h	9 h
IEC	180Ω	0.5 h/d	4.8V	8 h	7.2 h	7.2 h
REF	620Ω	24 h/d	5.4V	24 h	23 h	23 h

Satisfaction 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; and no more than one battery has a service output less than 80% of the specified requirement.
- 3) One re-test is allowed to confirm the previous result

8. Marking

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

- (1) Designation : GE6F22M
- (2) Manufacturer's name or abbreviation **"Golden Power Logo"**
- (3) Polarity: "+" or "-"
- (3) Warning: Battery may explode or leak if recharged or disposed of in fire

9. 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 "-" polarity in correct position, otherwise may cause short-circuit.
- (3) Short-circuiting, heating, disposing of into fire and disassembling the battery are prohibited.
- (4) Battery cannot be forced discharged, which lead 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 cause 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.

10. Shelf Life 1 years after delivery under proper storage conditions.
(Temperature: 20+/-2°C; Relative humidity: 65+/-20%RH)

11. Discharge Curves (Condition: Test temperature 20+/-2°C)

Discharge Method: 180Ω 0.5 h/d (Ref to the Figure 1)

Discharge Method: 620Ω 2 h/d (Ref to the Figure 2)

12. Battery Structure and Dimension: Ref to Drawing DWG-S001

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Figure 1: GE6F22M DISCHARGE CURVE

Discharge Method: 180 ohm; Period: 0.5 h/d

Temperature: 20+/-2°C

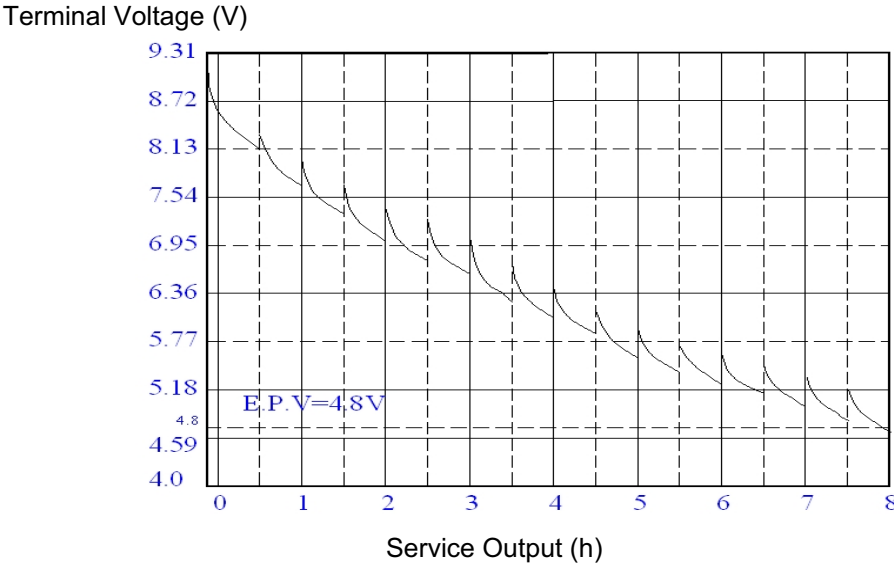
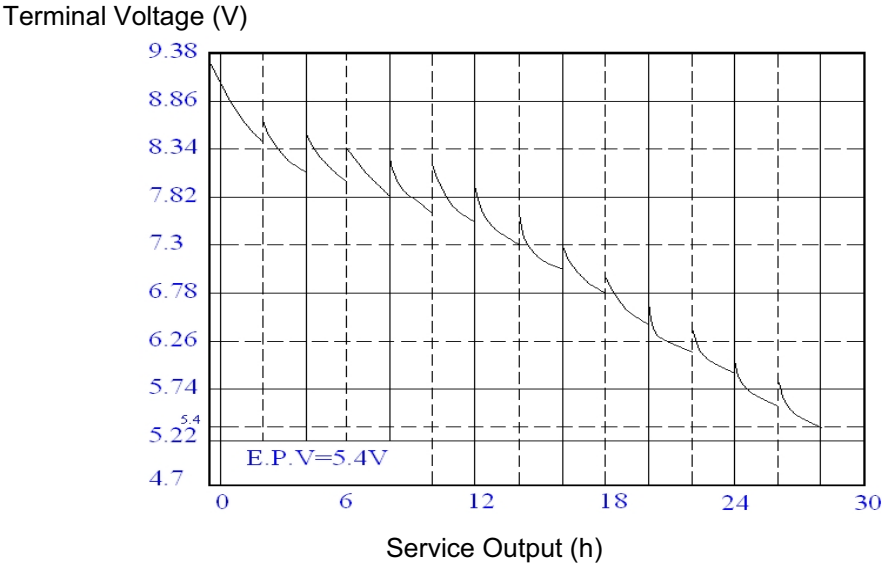


Figure 2: GE6F22M DISCHARGE CURVE

Discharge Method: 620 ohm; Period: 2 h/d

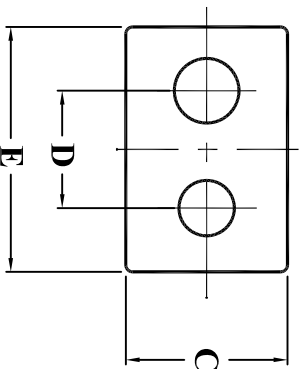
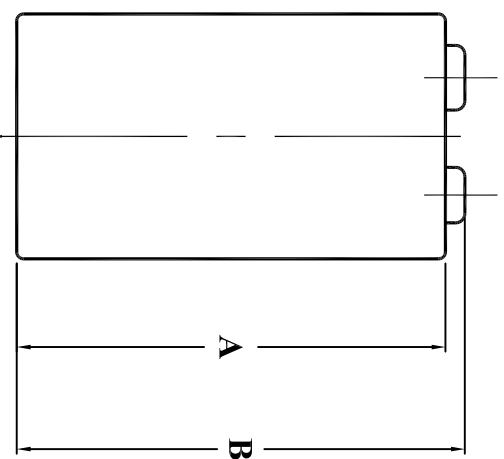
Temperature: 20+/-2°C



GE6F22M DIMENSIONS & STRUCTURE

GE6F22M 尺寸和結構

Dimensions (in mm) :
尺寸 (毫米)



Dimensions 尺寸	Specification 規格
A	46.4 Max
B	48.5 ^{+0.0} _{-2.0}
C	17.5 ^{+0.0} _{-2.0}
D	12.7 ± 0.25
E	26.5 ^{+0.0} _{-2.0}

Structure :
結構:

