

# A27S

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## TECHNICAL SPECIFICATION FOR ALKALINE MANGANESE DIOXIDE ALARM BATTERY

<b>Approved</b>		
<b>General Manager:</b>		<b>Date:</b>

Date: 2007/05/15  
SPEC. No.: GP001-A27S  
REVISION: 01

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



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. Safety Characteristics**

Item	Condition	Period	Requirements	Acceptance Standard
Short circuit Characteristics	Temp.: 20 ±2°C	24 hours	There shall be no explosion of battery	N=9, Ac=0, Re=1

**9. Marking**

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

- (1) Designation: A27S.
- (2) Manufacturer's name or abbreviation : "Golden Power Logo" 
- (3) Polarity Marking: "+" or "-"
- (4) Nominal Voltage: 12V

**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 "-" 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 discharge, which lead to excess internal gas generation 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.
- (9) The battery should not be dismantled and deformed.

**11. Shelf Life**

1 year after delivery under proper storage conditions.

(Temperature:  $20 \pm 2^{\circ}\text{C}$ ; Relative humidity:  $65 \pm 20\%$  RH)

90% of the capacity will be maintained after 1 year storage.

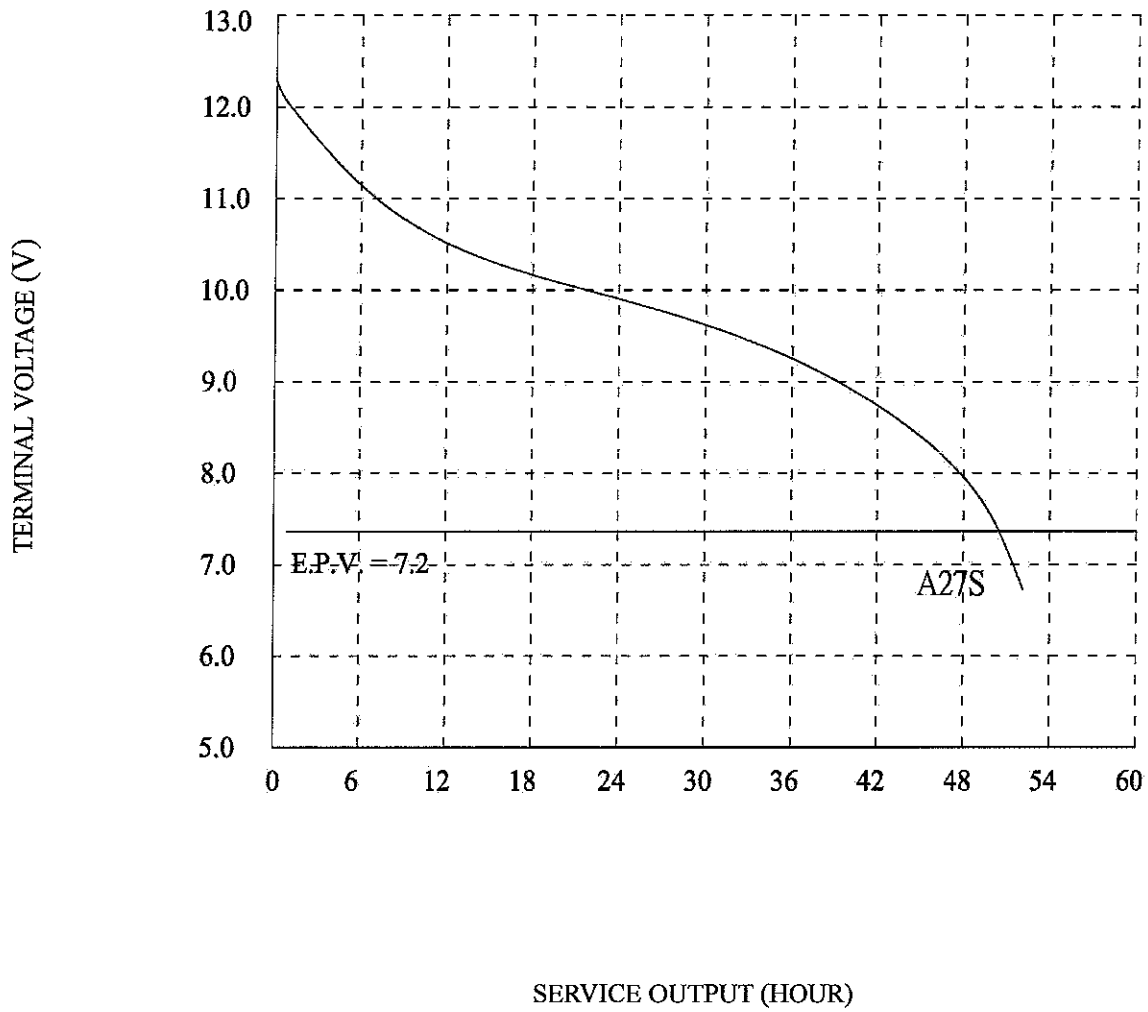
**12. Discharge Curves** (Condition: Test temperature  $20 \pm 2^{\circ}\text{C}$ )

Discharge Method:  $20\text{k}\Omega$ , 24hours/day (Figure 1)

**13. Battery Dimension** (Refer to Drawing DWG-S-002)**14. Battery Structure** (Refer to Drawing DWG-S-002)

# Golden Power Corporation (HK) Ltd.

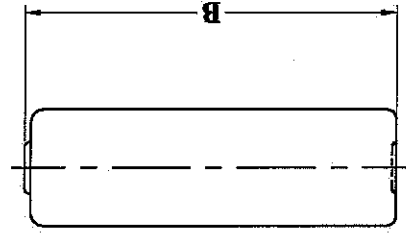
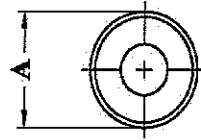
Figure 1: A27S DISCHARGE CURVE



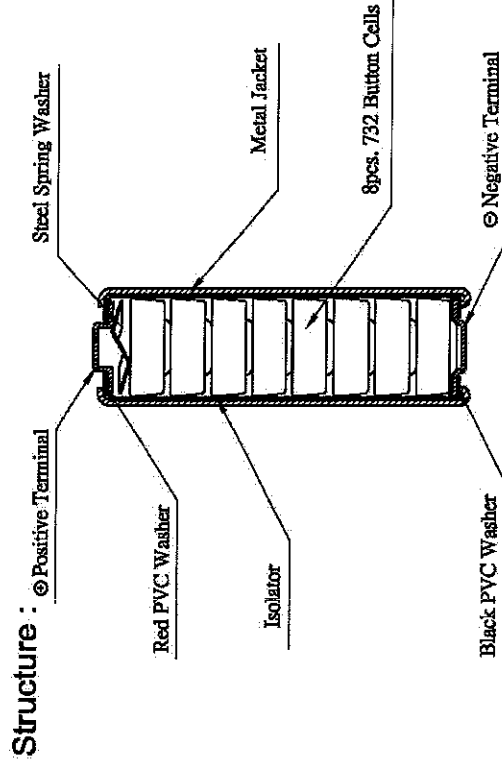
DISCHARGE METHOD: 20k $\Omega$ ; 24hours/day  
TEMPERATURE: 20  $\pm$ 2 $^{\circ}$ C

# A27S DIMENSIONS & STRUCTURE

Dimensions ( in mm ) :



Dimensions	Specification
<b>A</b>	$\varnothing 7.75 \pm 0.15$
<b>B</b>	$27.8 \pm 0.2$



DWG-S-002