



golden power

625A

**TECHNICAL SPECIFICATION
FOR
ALKALINE MANGANESE DIOXIDE BUTTON CELL**

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DATE : January 13, 2001
SPEC. NO. : ES-625A-C

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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 Alkaline Button Cell, Model No.: **625A**.

1.1 Designations

Golden Power : 625A IEC : LR9 Others : 246
 JIS : ---- ANSI : ----

1.2 Reference Document

IEC 86-1 (1996-07) --- Primary Batteries - General
 IEC 60086-2 (1997-07) --- Primary Batteries - Specification Sheets

2. Chemical System

Zinc-Manganese Dioxide (Potassium Hydroxide Electrolyte)

3. Nominal Voltage : 1.5 volt

4. Average Weight : 3.39 g

5. Nominal Capacity

170mAh (continuous discharge at 20±2°C under 2.7kΩ discharge load to 1.2V end-point voltage)

6. Electrical Characteristics

(Conditions: 2.7kΩ ±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)	Test Specification
New Battery	1.53	1.52	MIL-STD105E, Class II, Double Sampling, AQL=0.4
After 12 mth. room temp.	1.52	1.51	

7. Service Output

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

	Discharge Condition			Average Minimum Discharge Time	
	Discharge load	Daily discharge time	End Point Voltage (V)	New Battery	After 12 mth. at room temp.
Reference	2.7kΩ	24h	1.2	335h	305h

Satisfaction Standard : 9 pieces of battery will be tested for each discharging standard.

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	Period	Characteristics	Acceptance Standard
Over-discharge Characteristics	2.7 kΩ continuous discharge at temp. 20 ± 2°C, Relative Humidity : 65 ±20% RH	48 hours	No deformation exceeding the maximum dimension by 0.2mm or more, and no deformation or electrolyte leakage findable by visual check.	N=30, Ac=0, Re=1

9. Safety Characteristics

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

10. Marking

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

- (1) Designation : **625A**
- (2) Manufacturer's name or abbreviation : **Golden Power**
- (3) Nominal voltage : **1.5V**
- (4) Polarity : **"+"**

11. 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, disposing of into fire and disassembling the battery are prohibited.

12. Shelf Life : 12 months after delivery under proper storage conditions.

13. Discharge Curves (Condition: Test temperature 20 ±2°C)

Discharge Method : 2.7 kΩ 24hours/day (Figure 1)

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

15. Battery Structure (Refer to Drawing DWG-S-002)

Terminal : Negative -- Ni plated/Fe/Cu clad metal
 Positive -- Ni plated steel

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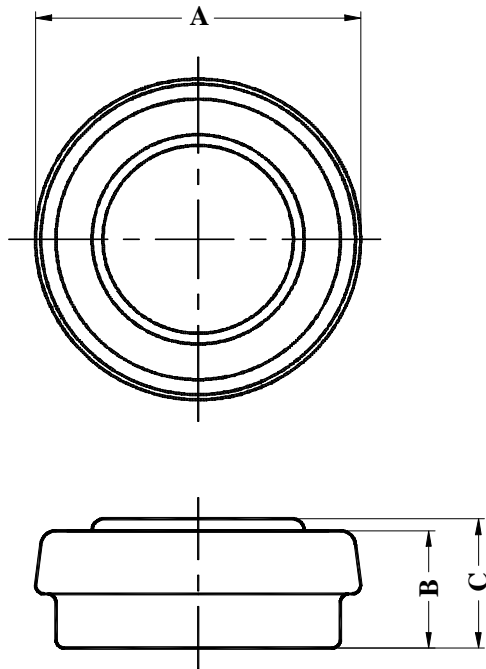
FIGURE 1 625A DISCHARGE CURVE

DISCHARGE METHOD : 2.7 k Ω , 24hrs/day
TEMPERATURE : 20 \pm 2 $^{\circ}$ C



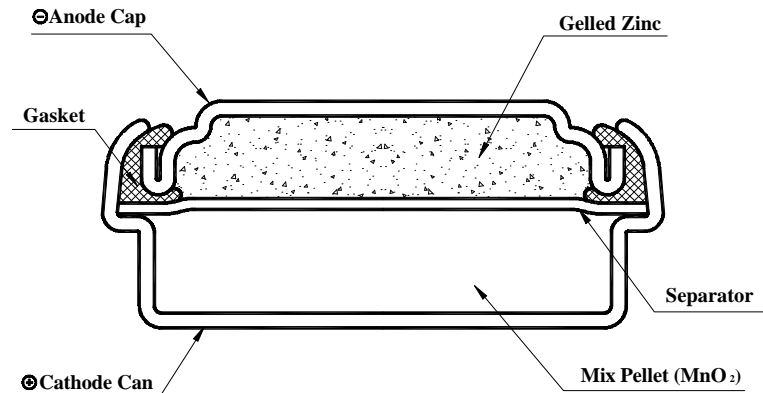
625A DIMENSIONS & STRUCTURE

Dimensions (in mm) :



Dimensions	Specification
A	$\varnothing 15.00^{+0.00}_{-0.20}$
B	$5.70^{+0.00}_{-0.30}$
C	$6.20^{+0.00}_{-0.40}$

Structure :



DWG-S-002