

## TECHNICAL SPECIFICATION FOR EXTRA HEAVY DUTY BATTERY (PVC JACKET)

Spec No. : ES-SUM4-2005A

 Date : Nov. 3<sup>rd</sup>, 2005

**1. Cross Reference :**

	Golden Power	JIS	IEC	ANSI	Others
	SUM4	SUM-4	R03	24D	AAA, 1212

- 2. Chemical System :** Zinc-Manganese Dioxide ( Zinc-Chloride Electrolyte )
- 3. Nominal Voltage :** 1.50V
- 4. Standard Capacity :** 330mAh ( 75Ω discharging, 4hrs/day, at 20±2°C to the end-point voltage of 0.9V.)
- 5. Approximate Weight :** 7.2g
- 6. Characteristics :** Characteristics of the battery are shown in the following table.

Items	Storage	Characteristics	Conditions
<b>6.1. Electrical Characteristics</b>			
Open-Circuit Voltage	Initial	1.55V or up	Temperature : 20±2°C Test within 30 days after delivery. MIL-STD105E, Class II, Double Sampling, AQL=0.4
	After 12 months	1.50V or up	
Flush Current	Initial	2.2A or up	
	After 12 months	1.7A or up	
<b>6.2. Service Output</b>			
10Ω, 1hr./day, E.P.V.=0.9V	Initial	136min.	IEC 86-1 (1996-07)
	After 12 months	123min.	IEC 60086-2 (1997-07)
75Ω, 4hr./day, E.P.V.=0.9V	Initial	21hr.	Temperature : 20±2°C
	After 12 months	19hr.	Test within 30 days after delivery.
<b>6.3. Electrolyte Leakage Proof Characteristics</b>			
Electrolyte leakage on over discharge	There shall be no deformation exceeding the specified dimensions, nor leakage recognized by human eyes.		Temperature : 20±2°C Load Resistance : 15Ω Over discharge : End point voltage = 0.6V

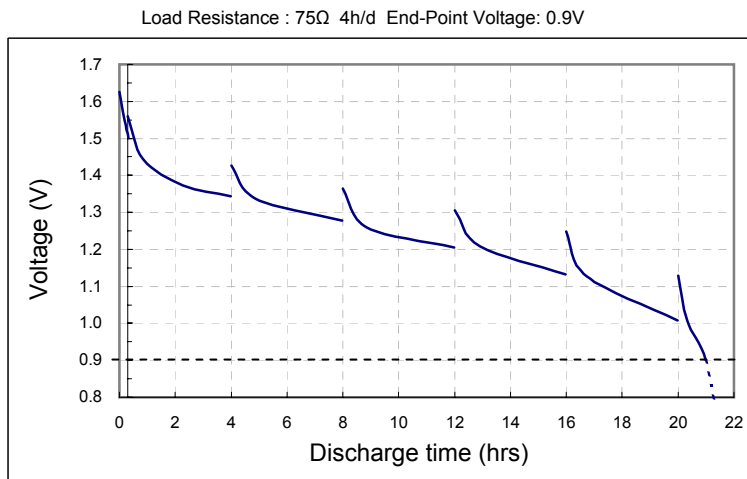
**7. Discharge Curve :**


Fig. 1

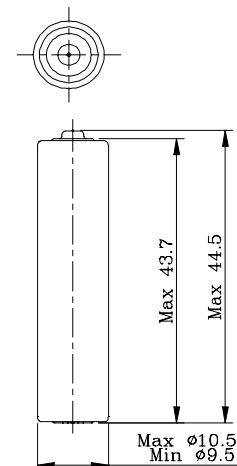
**8. Dimensions :**


Fig. 2

- 9. Caution for Use :**
- 9.1. 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.
  - 9.2. The battery shall be installed with its "+" and "-" sign according to the instruction shown on the applied device.
  - 9.3. Short-circuiting, heating, disposing of in fire, or disassembling the battery shall be prohibited.

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