

TECHNICAL SPECIFICATION FOR EXTRA HEAVY DUTY BATTERY (PVC JACKET)

Spec No. : ES-SUM3-2005A

 Date : Nov. 3rd, 2005

1. Cross Reference :

Golden Power	JIS	IEC	ANSI	Others
SUM3	SUM-3	R6C	15D	AA, 1215

- 2. Chemical System :** Zinc-Manganese Dioxide (Zinc-Chloride Electrolyte)
- 3. Nominal Voltage :** 1.50V
- 4. Standard Capacity :** 700mAh (43Ω discharging, 4hrs/day, at 20±2°C to the end-point voltage of 0.9V.)
- 5. Approximate Weight :** 15.2g
- 6. Characteristics :** Characteristics of the battery are shown in the following table.

Items	Storage	Characteristics	Conditions
6.1. Electrical Characteristics			
Open-Circuit Voltage	Initial	1.60V or up	Temperature : 20±2°C Test within 30 days after delivery. MIL-STD105E, Class II, Double Sampling, AQL=0.4
	After 12 months	1.55V or up	
Flush Current	Initial	3.5A or up	
	After 12 months	2.5A or up	
6.2. Service Output			
10Ω, 1hr./day, E.P.V.=0.9V	Initial	4.3hr.	IEC 86-1 (1996-07)
	After 12 months	4.0hr.	IEC 60086-2 (1997-07)
43Ω, 4hr./day, E.P.V.=0.9V	Initial	25hr.	Temperature : 20±2°C
	After 12 months	22.5hr.	Test within 30 days after delivery.
6.3. Electrolyte Leakage Proof Characteristics			
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 : 3.9Ω Over discharge : End point voltage = 0.6V

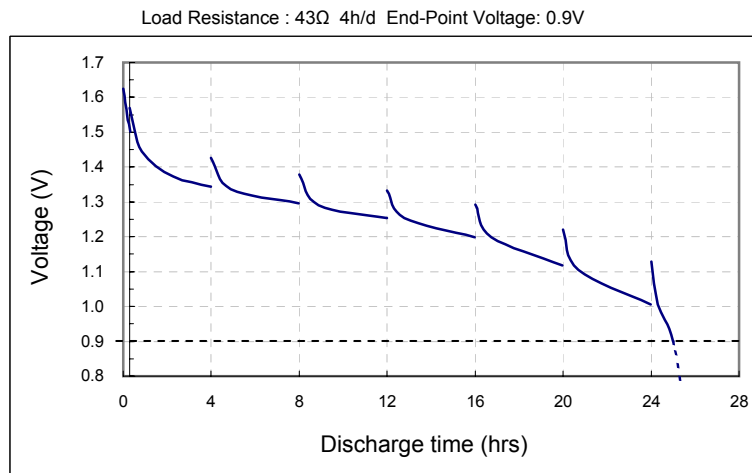
7. Discharge Curve :


Fig. 1

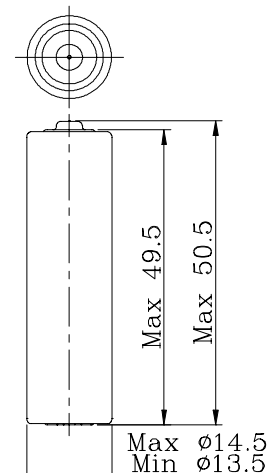
8. Dimensions :


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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