

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

Spec No. : ES-SUM2-2005A

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

**1. Cross Reference :**

Golden Power	JIS	IEC	ANSI	Others
<b>SUM2</b>	SUM-2	R14P	14D	C, 1235

- 2. Chemical System :** Zinc-Manganese Dioxide ( Zinc-Chloride Electrolyte )
- 3. Nominal Voltage :** 1.50V
- 4. Standard Capacity :** 1800mAh ( 20Ω discharging, 4hrs/day, at 20±2°C to the end-point-voltage of 0.9V.)
- 5. Approximate Weight :** 41g
- 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	1.60V 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	4.5A or up	
	After 12 months	4.0A or up	
<b>6.2. Service Output</b>			
3.9Ω, 1hr./day, E.P.V.=0.8V	Initial	4.9hr.	IEC 86-1 (1996-07)
	After 12 months	4.4hr.	IEC 60086-2 (1997-07)
20Ω, 4hr./day, E.P.V.=0.9V	Initial	30hr.	Temperature : 20±2°C
	After 12 months	27hr.	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 : 3.9Ω Over discharge : End point voltage = 0.6V

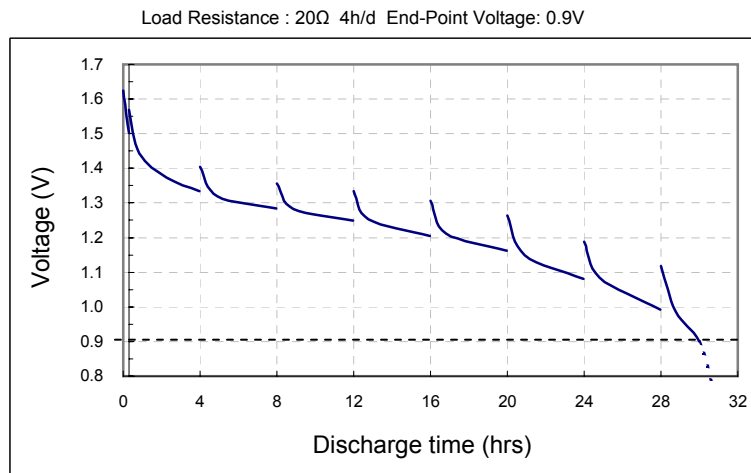
**7. Discharge Curve :**


Fig. 1

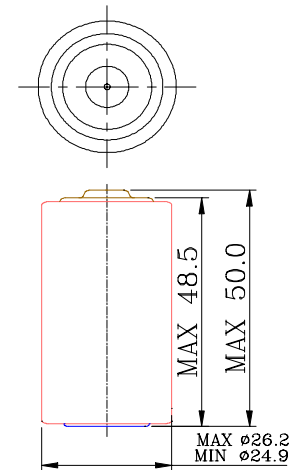
**8. Dimensions :**


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.

**GOLDEN POWER CORPORATION (HK) LTD.**

Flat C, 20/F, Block 1, Tai Ping Industrial Centre, 57 Ting Kok Road, Tai Po, N.T., Hong Kong.  
 Tel: (852) 3125 2288 Fax: (852) 3125 2000 / (852) 3125 2001  
 E-mail: battery@goldenpower.com Web Page: <http://www.goldenpower.com>