

Product Specification

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Model No.: GPPX625A

1. SCOPE

This specification covers the requirements for primary manganese dioxide button cell.

GP Model: GPPX625A

IEC:LR9

2. RATINGS

Description	Unit	Specification	Conditions	
Description		Alkaline Button Cell		
Nominal Voltage	V	1.5	digital multimeter	
Nominal Dimension	mm	OD 15.60 X Ht 5.95	micrometer, caliper, projector	
Application		Electronic toys, camera, etc.		
Average Weight	gram	2.9	digital balance	
Shelf Life		Not less than 90% of the service capacity within first year, Not less than 85% of the service capacity within third year storage at 22 ± 3 °C 40~80%RH.		
Date Code		Unless otherwise specified, each cell will carry a numberic year code and an alphabetical month code	ie.///1\\=Jan-Feb 2001 //1\\=May-June 2001 or 1A=Jan 2001 1F=June 2001	
Nominal Service Life	hr	18 (at 125 ohm Load)	cut-off 0.9V	
Average Service Capacity	mAh	190(at 470 ohm Load)	cut-off 0.9V	
Storage Temperature	°C	-10 to 60	10% loss for 20 days storage at 60°C	
Storage Humidity	RH%	40-80		
Testing temperature	°C	22±3		
Operation temperature	°C	0 to 45		



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3. PERFORMANCE

Unless otherwise stated, tested should be done within one month of delivery under the following conditions:

Test	Unit	Specification	Conditions	Remarks
Service life	hr	≥18	125 ohm load, cut-off voltage 0.9V Eight batteries discharged to the end voltage, calculate the average without the exclusion of any result. No battery permit to go below 8% of the service hours specified in the table. Only 1 retest is allowed for each lot tested.	
Open Circuit Voltage (OCV)	V	≧1.5	The open circuit voltage is measured on a digital voltmeter with input impedance of 1 mega ohm minimum.	digital multimeter
Close Circuit Voltage (CCV)	V	≧1.35	Load resistor 100 ohm for 0.1 to 2 seconds	digital multimeter
Leakage		No leakage nor deformation	When batteries are stored and discharge under the standard conditions given in this document, no electrolyte or other internal component shall surfaces of the battery	naked eye
External Short circuit	N/A	No fire and no explosion.	After standard charge, short circuit the cell at 20±5°C until the cell temperature returns to ambient temperature. (The resistance of the inter-connecting circuitry shall not exceed 0.1 ohm.)	

4. CONFIGURATIONS, DIMENSIONS AND MARKINGS

Please refer to its Data Sheet.

5. EXTERNAL APPEARANCE

The cell shall be free from cracks, scars, breakage, rust, discoloration, leakage and deformation.

6. WARRANTY

Not less than 90% of the service capacity within first year, Not less than 85% of the service capacity within second year storage at 22 ± 3 Max 85 %RH.

Not less than 90% of the service capacity within first year, not less than 85% of the service capacity within third year storage at $22 \pm 3^{\circ}$ C $40 \sim 80\%$ RH.

7. Precaution, Handling and Storage

- Do not attempt to take batteries apart or subject them to pressure or impact. Heat may be generated or fire may
 result. The alkaline electrolyte is harmful to eyes and skin, and it may damage clothing upon contact.
- Keep away from children. If swallowed, contact a physician at once.
- Do not mix GP batteries with other battery brands or batteries of a different chemistry such as alkaline and zinc carbon.
- Do not short circuit batteries, permanent damage to batteries may result.

GP Batteries

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- Do not incinerate or mutilate batteries, may burst or release toxic material.
- Do not solder directly to cells or batteries.
- Store batteries in a cool dry place.
- If find any noise, excessive temperature or leakage from a battery, please stop its use.
- When not using a battery, disconnect it from the device.
- Do not mix new batteries in use with semi-used batteries.
- When find battery power down during use, please switch off the device and take batteries out.
- Never put a battery into water or seawater.