

Alkaline Battery, 27A



1. Scope:

This specification is applicable to RND 305-00025 high voltage alkaline cell.

2. Law & Regulation Compliances:

This product complies with EU's battery directive (2013/56/EU).
Packaging materials comply with EU's directive on packaging materials and waste (94/62/EC)



3. General:

3.1 Type designation:

GP 27A

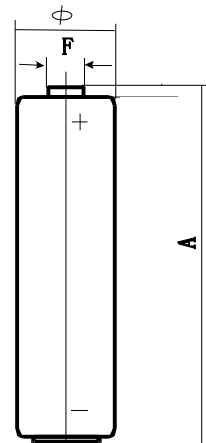
3.2 Chemical system: Zinc / Manganese Dioxide

3.3 Nominal voltage: 12 V

3.4 Weight: Approximate 4.8g

3.5 Dimension (mm):

/	min	max
Φ	7.4	8.0
A	27.0	28.2
F	3.2	3.8



3.6 Capacity: Approximate 20 mAh (20k Ω , 24h/d, 20°C, e.v.:6.0V)

3.7 Heavy Metal Contents: Hg \leq 5 ppm, Cd \leq 20ppm, Pb \leq 40ppm

3.8 Operation temperature: : -18°C~50°C
Recommend storage : 0~30°C, 55 \pm 20%RH

4. Electrical Characteristics:

Unless otherwise stated, all measurements are to be performed at a **Standard Environment** of

20 ± 2°C
55± 20%RH.

All samples are normalized for 8 hours at least at the above environment prior to measurement. The digital voltmeter (DCM) is with the precision of 1mV (internal resistance not less than 1 Megohm). The load resistance of the total circuit is accurate within ±0.5% of the specified value.

4.1 Open circuit voltage:

/	OCV(V)
Initial	≥12.0

4.2 Service output:

Load	20KΩ
Test mode	24h/d
end voltage	6.0V
Initial (MAD)	50h
the delayed discharge performance stored 12 months is above 90% of initial	

m: minute h: hour d: day

*The initial discharge test shall commence within 30 days of manufacture. During stored period, the cells shall be stored under 20±2°C, RH55±20% conditions.

5. Expiry Date:

1 year

6. Expiry Date Marking:

6.1 Unless otherwise specified, each battery will carry a manufacturing date code followed by month and year of manufacturing for domestic and manufacturing date code followed by month and year of expiry for export. (Shelf life 1 year)

7. Packaging Requirements:

7.1 The total of heavy metal lead, cadmium, mercury, and hexavalent chromium concentration shall not exceed 100 ppm in Packaging materials and printing inks. Ozone depleting substances (ODS) shall not be used in the manufacturing of any packaging.

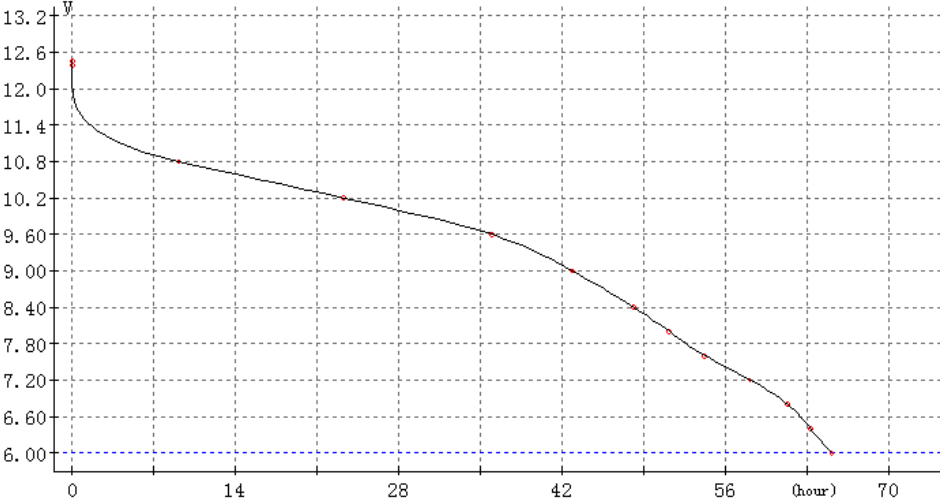
The printing on each cell label is legible and permanent. Label defects, if any, shall conform to mutually agreed upon limit samples.

7.2 Otherwise packaging for shipment and sales shall conform to the mutually agreed to Packaging Specification of the designated customers.

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Chart 1. Discharge diagram



Art. Nr.
RND 305-00025