

Product Datasheet

Speciality Size Batteries

Alkaline Battery 27A (L828)

[RS Stock No. 801-0718](#)



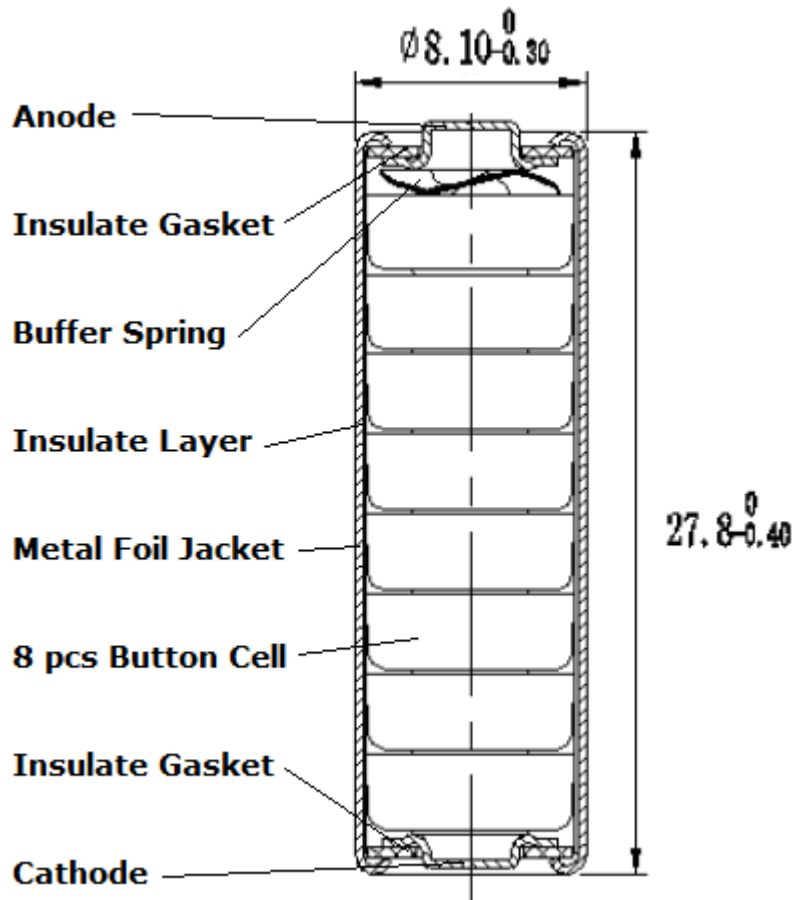
General:

Batteries, in all their aspects, should be in accordance with IEC 60086-1 and IEC 60086-2

Specification:

1. RS Article No. 8010718
2. Nominal voltage: 12.0 Volt, Open circuit voltage: 12.0 Volt +0.4 / -0
3. Nominal capacity: 25mAh (Test condition: 20K Ω load, continuous discharge, and end voltage 6.0 V)
4. Average weight: 4.3 \pm 0.2g
5. Shelf life: 24 Month

6. Dimensions and Assembly





7. Performance:

Battery service life should meet the values as stated in Table

Discharges					
Test Condition			Average duration at 20°C ¹⁾		
Load	Daily Period	End Voltage	Initial	After 12 months storage ²⁾	After 24 months storage ²⁾
20 kΩ	24 h/d	6.0 V	55.0 h	48.0 h	40.0 h
1 kΩ	24 h/d	6.0 V	100 min	85 min	70 min

1.) Average service life will be calculated without the highest and the lowest of 9 samples

2.) Storage conditions: temperature 20±2°C and the Relative Humidity shall be 65±20%

8. Heavy metal content:

Mercury (Hg) content should be less than 2%

Cadmium (Cd) content should be less than 5 ppm

Lead (Pb) content should be less than 5 ppm

9. Quality Assurance:

Description	AQL
Battery dimensions	0.65%
Appearance	1.00%
Off load voltage	0.65%
On load voltage	1.00%
Service output	Note 1
Leakage	6.1
	6.2
	6.3
	1.00% (Note 2)
	Note 3
	Note 4

Note 1: Acceptance/rejection in accordance with IEC publication (1993) 86-1 Sub-clause 8.8

Note 2: Leakage on arrival at warehouse is within two months after shipping.

Note 3: Sample size: n = 20; Judgement: Ac = 1, Re = 2.

Note 4: Sample size: n = 20; Judgement: Ac = 1, Re = 2.



10. Precaution and Handling:

- 1.) Do not disassemble or short-circuit batteries.
- 2.) Do not recharge batteries.
- 3.) Do not dispose of batteries in fire.
- 4.) Do not allow metal objects to contact the battery terminals.
- 5.) Do not mix with used or other battery type (such as alkaline with carbon zinc).
- 6.) Do not solder the batteries directly. If soldering or welding connection to the battery is required, consult our engineer for proper methods.
- 7.) Do not over-discharge batteries. Force discharging batteries by external power source in a series may cause explosion.
- 8.) To install or remove batteries, follow the equipment manufacturer's instructions.
- 9.) Keep battery away from small children. If swallowed, consult a physician at once.
- 10.) Remove batteries from device when it is not in use.

11. Storage:

- 1.) Store in cool, dry place before use.
- 2.) Do not keep batteries at temperature of 45°C or above.
- 3.) Do not keep batteries at relative humidity of 75% or above.