

## Datasheet

# 12V Alkaline A23 Battery

RS Stock number [749-2620](#)



### Description:

Alkaline Manganese Dioxide 12 V miniature battery.

### Specifications:

Chemistry:	Alkaline
Dimensions:	28.1 x 10.1 mm
Nominal Voltage:	12 V
Nominal Capacity:	55 mAh
Size:	A23
Terminal Type:	Standard
Weight:	8 ± 0.2 g
Shelf Life:	24 Months



**Performance:**

Battery service life should meet the values as stated in Table 1.

Table 1

Discharges					
Test condition			Average duration <sup>1)</sup> at 20°C		
Load	Daily period	End voltage	Initial	After 12 months storage <sup>2)</sup>	After 24 months storage <sup>2)</sup>
20kΩ	24 h/d	6.0V	110.0 h	100.0 h	88.0h
1kΩ	24 h/d	6.0V	235min	175 min	150min

- 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%

**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

**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	1.00% ( Note 2 )
6.2	Note 3
6.3	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 2 months after shipping

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

**Note 4:** Sample size: n = 20, Judgement: Ac = 0, Re = 2

**Precaution and Handling:**

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

**Storage:**

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

**Dimensional Drawings:**

