

## Product Specification

### General

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

1. Model no. **PRO-ELEC Alkaline LR03**

2. Nominal voltage 1.5Volt

Open circuit voltage 1.5Volt+0.15/-0

3. Nominal capacity 1100mAh

(Test condition:75Ω Load, continuous discharge, and end voltage 0.9V)

4. Average weight 12±0.5g

5.Shelf life 60Month

6. Performance

Battery service life should meet the values as stated in Table I

Table I

<b>Discharges</b>					
<b>Test condition</b>			<b>Average duration<sup>1)</sup> at 20°C</b>		
Load	Daily period	End voltage	Initial	After 12 months storage <sup>2)</sup>	After 36 months storage <sup>2)</sup>
75Ω	4 h/d	0.9V	65.0 h	58.9 h	54.4h
10Ω	1 h/d	0.9V	7.5 h	7.2 h	6.6 h
20Ω	continuous	0.9V	16.5 h	14.4 h	13.3h
5.1Ω	4 min/h-8h/d	0.9V	3.5h	3.2h	3.0h

3.6Ω	15 sec/min	0.9V	560 pulses	520 pulses	475 pulses
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<sup>1)</sup> Average service life will be calculated without the highest and the lowest of 9 samples

<sup>2)</sup> Storage conditions: temperature  $20 \pm 2^\circ\text{C}$  and the Relative Humidity shall be  $65 \pm 20\%$

7. Heavy metal content: Mercury(Hg) content should be less than 1 PPM

Cadmium (Cd) content should be less than 5 PPM

Lead (Pb) content should be less than 15 PPM

## 8. 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	0.65% ( 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 two months after shipping.

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

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

## 9. PACKAGING

Packaging shall be a form agreed by both parties.

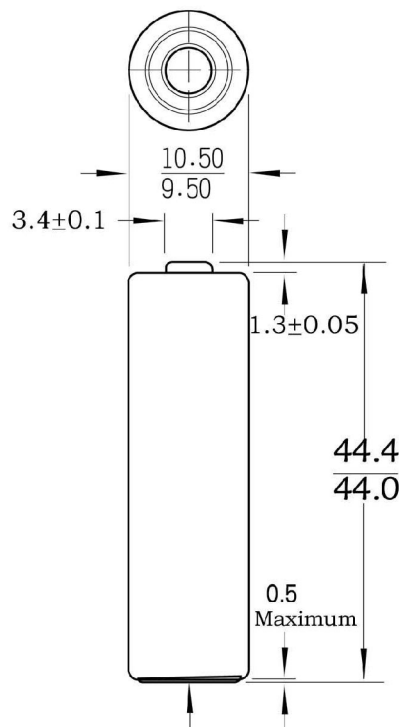
## **PRECAUTION & HANDLING**

- (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.

## **STORAGE**

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

**Drawing 1: Dimensions of Battery ( Super Ring LR03)**



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