



Product Specification

General

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

1. Model no.

2. Nominal voltage 1.5Volt

Open circuit voltage 1.5Volt+0.15/-0

3. Nominal capacity 1100mAh

(Test condition:75 Ω 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

	Discharges							
Test condition			Average duration ¹⁾ at 20°C					
Load	Daily period	End voltage	Initial	After 12 months storage ²⁾	After 36 months storage ²⁾			
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

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

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

 $^{^{2)}}$ Storage conditions: temperature 20±2°C and the Relative Humidity shall be $65\pm20\%$

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)

