

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 6LR61
2. Nominal voltage 9.0Volt
- Open circuit voltage 9.0Volt + 1.7/ - 0
3. Nominal capacity 475mAh
(Test condition:620Ω Load, continuous discharge, and end voltage 4.8V)
4. Average weight 49±2g
- 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⁾
180Ω	30 m/d	4.8V	11h	10.1h	9.3h
270Ω	1h/d	5.4V	17h	15.6h	14.4h
620Ω	2 h/d	5.4V	40h	36.8h	34h

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%

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°C or above.
- (3) Do not keep batteries at relative humidity of 75% or above.

Drawing 1: Dimensions of Battery (6LR61/9V Size)

