



LRO3 Alkaline Zinc--Manganese Battery Teachnology Specification

1. MODEL NO:IEC :LRO3 JIS:AM-4 ANSI:AAA
2. ELECTROCHEMICAL SYSTEM:Alkaline Zinc-Manganese Battery
Non-mercury Battery :mercury content \leq 1ppm
3. NOMINAL VOLTAGE :1.5V
4. AVERAGE WEIGHT :11.5g
5. PACKAGE : The package is consisted of
(1) 2 PCS LR03
(2) PVC package
6. STANDARD SERVICE OUTPUT :110minutes (20°C,3.9Ω continuous discharge,e.v.0.9V)
7. ELECTRIC PERFORMACE (Load resistance:5Ω Test temperature:20°C)

	Open Circyit Voltage(V)	Load Voltage (V)	Short Circuit Current(A)
Initial life battery	1.58±0.02	1.45±0.02	\geq 5.5
At 45°C for 3 month	1.56±0.02	1.40±0.02	\geq 4.5
At normal temperature in a year	1.56±0.02	1.40±0.02	\geq 4.5

8. DISCHAREGE PERFORMANCE (Test temperature :20°C Measure:hour)

Discharege performance	20Ω Continuous Discharge (e.v.0.9V)	300Ω Continuous Discharge (e.v.0.9V)	5Ω Intermittent Discharge 10min/day (e.v.0.9V)	3.9Ω Intermittent Discharge 30min/day (e.v.0.9V)
Initial life battery	16.8±0.5	310±15	3.6±0.2	2.1±0.1
At 45°C for 3 month	15.8±0.5	300±15	3.1±0.2	1.84±0.1
At normal temperature in a year	15.8±0.5	300±15	3.1±0.2	1.84±0.1

9. LEAKAGE RESISTANCE PERFORMANCE

Test Item	Test requested	Time	Charalteristic
Excessive discharge/ Leak proof	20Ω Continuous Discharge Temperature: 20±2°C Humidity: \leq 65±20%HR *(A)	48 hours	No charging size Or no leakage for battery
Storage/ Leak proof	Temperature:45±2°C *(B) Humidity: \leq 70%HR	30 Days	
		60 Days	
		90 Days	
	Temperature:60±2°C *(C) Humidity: \leq 90%HR	10 Days	
		20 Days	
		30 Days	

*(A) Samples : 20

Coefficient of Determination : Ac=0, Re=1

*(B) Samples : 20

Coefficient of Determination : Ac=0, Re=1

*(C) Samples : 20

Coefficient of Determination : Ac=0, Re=1

10. SAFETY PERFORMANCE

Test Item	Test requested	Time	Charalteristic
Short Circuit performance	Temperature:20±20°C	12 hours	No explosion
		24 hours	
Charging performance	Charging current :60mA Temperature:20±20°C	12 hours	
		24 hours	

11. SAFTY GUIDELINE

- 11.1 Keep Batteies out of the reach of children
- 11.2 Do not charge batteries
- 11.3 Do not dispose of battery in fire
- 11.4 Do not mixup different kind of batteries together
- 11.5 Do not short circuit the battery
- 11.6 Follow the user instruction(polarity) to put into batteries.
- 11.7 Do not solder the battery
- 11.8 Take out the battery from your electronics equipments. In case of long term won't use it.

12. DIMENSIONS (mm)

Diameter: Φ 10.50±0.1

Height:44.0±0.5

