

LR6 battery specification

1. Type designation: IEC LR6

JIS: AM3

ANSI: AA

2.Chemical system:

Electrolyte-zinc-manganese dioxide (mercury & cadmium free)

3.Dimension: Diameter: 13.5-14.5

Height: 49.2-50.5

4. Norminal voltage: 1.5 Volts

5.Norminal:

The weight of each battery is approximately: 23.5g

6.Heavy Metal content (%):

Mercury content	Cadmium	Lead
≤1ppm	≤10ppm	≤40ppm

7. Appearance and terminal:

Battery shall be clean and have no dirt, no leakage, and no deformation which may affect their performance and actual use and shall have clearly visible markings.

8.Battery capacity: (Test environment : 20°C±2,60%±15%R.H)

(Load resistance:43ohms, Daily period:24h/d, Cut off voltage:0.8V; According to as the above the same discharge condition, the capacity of each battery is approximately:2600mAh)

9. Storage characteristics:

After 12 months storage at 20°C, 90% capacitance of fresh cells.

After 60 months storage at 20°C, 80% capacitance of fresh cells.



10. Electrical characteristics:

(Test environment:20°C±2,60%±15%R.H)(Load resistance: 3.9ohms, Measure time: 0.3S)

(All samples shall be normalized for a minimum of 8 hours at the above environment prior to measurement)

	OCV (V)	CCV (V)	SCC (A)
Initial	≥1.59	≥1.45	≥10
After 12 months storage	≥1.57	≥1.43	≥8

Remark: OCV: Open Circuit Voltage; CCV: Close Circuit Voltage; SCC: Short Circuit Current

11. Discharge test (service life) (Test environment: 20°C±2,45%--75%R.H)

LOAD	(1.5W,	24 Ω	3.9 Ω	10 Ω	43 Ω	1000mA	250mA
Resistance	0.65W)	24 52	3.9 52	10 25	43 52	TOOOMA	250IIIA
Doily Doried	(2s,28s),	nulaa	1 h /d	1 h /d	4b/d	10s/min,	1 b /d
Daily Period	5m/h,24h/d	pulse	1h/d	1h/d	4h/d	1h/d	1h/d
Cut off	4.05\/	4.01/	0.01/	0.01/	0.01/	0.01/	0.01/
Voltage	1.05V	1.0V	0.8V	0.9V	0.9V	0.9V	0.9V
la idia l	70	44.51	7.01-	40.05	00.05	100	7.5
Initial	70cycles	44.5h	7.2h	19.0h	90.0h	420 cycles	7.5h
After 12							
months	65cycles	43.5h	6.8h	18.0h	87.0h	380 cycles	7.0h
storage							
A 1: 4:	D00	Remote	Na-tt	Tape	4:-	Camera flash	25
Application	DSG	control	Motor, toy	recorder	radio	light	CD

Remark: The initial discharge test shall commence within 30 days of manufacture.

The discharge time is the minimum average duration (MAD).

Test quantity: n=9pcs (for per discharge test)



12.Leakage-proof structure:

- ① The top seal is made of imported special nylon from DUPONT, has a much stable vent pressure.
- ② The sealing location of the battery is provided with double beading scores to make the structure tighter.
- ③ Using imported special sealing glue, with more reliable leakage-proof performance.

13. Safety test (Test environment: 20°C±2,60%±15%R.H)

Test item	Test method	Test pcs	Requirements
	10ohms (24h/d) 48hours	9pcs	No leakage
	3.9ohms (4min/h,8h/d) to 0.6V	9pcs	No leakage
Over-discharge	1000mA (10s/min, 1h/d) to 0.6V	9pcs	No leakage
leakage test	10ohms (1h/d) to 0.6V	9pcs	No leakage
	43ohms (4h/d) to 0.6V	9pcs	No leakage
	24ohms (15s/mn, 8h/d) to 0.6V	9pcs	No leakage
	60±2°C,RH:90±5%, after 20 days storage, the cells		
High temperature test	shall be stored in an ambient temperature of 20±	40	No leakage
	2°C,RH:60±5%, for 4-24hours.		
One piece of battery	The terminal of an un-discharged battery is connected by wire. The circuit is completely for 24hours or until the case	10	No explosion
Short circuit test	temperature has return to environment.	10	No explosion
Reversible charge	4 pieces of battery are in series connected and one of them is under incorrect polarity for 24 hours or until the case temperature has return to environment	40	No explosion
Over discharge	One battery discharge 43ohms to 0.6V, then in series connect with 3 pieces of new battery with 20ohm 24h		No explosion
Free fall test	The battery free drops from one-meter height for 6 times, then store for 1h	10	No explosion



Impact under high	Un-discharged battery store in test box under 70±2°C for		No explosion
and low temperature	24h,then change to -20°C for 24h, repeat the above condition	20	
	for 10 cycles.		
Storage after partial	50% discharged battery stored under 45±5°C for 30days	9	No leakage
discharge	30% discharged battery stored under 40±0 0 101 30days		No explosion

14.Expiry period: 7 years

15. Expiry period marking:

① Expiry date marked on the bottom plate of finished battery . For example: 2008-08 means the production date is August 2008.