



CERRO POWER

SHENZHEN CERRO POWER COMPANY LTD

LR06/AA 1.5V
TECHNICAL SPECIFICATION FOR
LR06 ALKALINE-MANGANESE DRY BATTERY

AA/LR06 1.5V Dry battery cell
ALKALINE-MANGANESE DRY BATTERY

Doc No. : CP-LR06-2009D1

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(Information in the document is just for reference, not for gurantee of battery performance)



1. Abstract

This specification is applied to LR03 Alkaline Battery of East(Shenzhen)Technology Co., Ltd

1.1 Model

IEC: LR06 Others: AA

JIS: AM3 China: 5 #

1.2 Reference Standard

IEC 60086-1 (2000-11) -- Primary Batteries - General

IEC 60086-2 (2000-07) -- Primary Batteries - Physical and Electrical Specifications

1.3 Applied Standard

GB/T8897.2-2008

2. Chemical Structure

Zinc, Manganese Dioxide, Potassium Hydroxide, Graphite Powder, Non-woven Separator.

3. Standard Voltage: 1.5Volt

4. Average weight: 23.3±0.5g

5. Rated Capacity

1800mAh (Condition: Continuously discharge 24 hours per day until the cell reaches 0.9V, with the condition of 20±2°

C, 3.9Ω of resistance.)

6. Electrical Characteristics

(Condition: 3.9Ω resistor, Test duration: 0.3s, Temperature: 20±2° C, Test period: Within 30 days after manufactured.

	No load Voltage (V)	Loaded Voltage (V)	Instantaneous Current (A)	Applied Standard
New Battery	1.60	1.48	8.0	MIL-STD-105E, General Class II, Random sampling twice, AQL=0.4
After 3 months, Stocked under room temperature	1.58	1.45	7.0	
After 12 months, Stocked under room temperature	1.58	1.45	7.0	

7. Discharge Characteristics



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(Condition: Temperature: 20±2°C, Test period: Within 30 days after manufactured)

	Discharge Condition			Minimum Average Duration		
	Discharge Load	Discharge Time/Day	Termination Voltage (V)	New Battery	Room Temperature Storage for 3 Months	Room Temperature Storage for 12 Months
IEC Discharge Case	43Ω	4h	0.9	65.0h	58.0h	58.0h
	3.9Ω	4min/h,8h	0.8	270min	240min	240min
	10Ω	1h	0.9	15.0h	13.5h	13.5h
Reference Discharge Case	3.9Ω	24h	0.9	360min	330min	330min
	10Ω	24h	0.9	18.0h	17.0h	17h

Acceptance standard:

- a) Test 9 sampling units on every test condition.
- b) Average discharge time shall be larger or equal to specified minimum average discharge time, and if the number of batteries with their discharge time is less than 80% of specified time is less than 1, these batteries' discharge time shall consider passed.
- c) If above test is failed, it is allowed to be retested one more time.

8. Leakage Characteristics

Item	Condition	Duration	Result	Acceptance Standard
Leakage Test Under Discharge Condition	20Ω continuous discharge, Temperature: 20±2 °C, RH: 45%-75%	Continuous discharge for 48 hours	Distortion of battery cell is less than specified limit or no leakage is observed.	N=9 Ac=0 Re=1
Leakage Test Under Storage Condition	Temperature: 45±2°C, RH: 70%	60 Days		N=9 Ac=0, Re=1
	Temperature: 60±2°C, RH: 95%	30 Days		

9. Safety Characteristics



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Item	Condition	Time	Result	Acceptance Standard
Short-circuit Test	Temperature: 20±2 °C	24 Hours	No explosion, no leakage.	N=9 Ac=0 Re=1

10. Marking

Shall marking below information on battery:

- (1) Battery Type: LR06
- (2) Brand name: **CERRO POWER**
- (3) Voltage: 1.5V
- (4) Polarity: “+”或“-” (+) or (-).
- (5) Warning: MAY EXPLODE OR LEAK IF RECHARGE, DISPOSE OF IN FIRE OR DISSECT OF BATTERY CELL.

11. Notices

- (1) Please do not recharge the battery cell, hazardous may occur or may caused leakage.
- (2) Beware of battery polarity during installation, avoid wrong polarity installation.
- (3) Please do not short-circuit, heat up, dispose of in fire or dissect of battery.

12. Storage period: Storage period can more than 6 years if storage is undergone room temperature and preferred environment.

13. Discharge Curve (Test Temperature: 20±2°C)

- (1) Discharge Method: 3.9Ω load, 24Hrs/Day (see Figure 2)

14. Battery Cell Dimension (see Sigure 1)

Figure 1

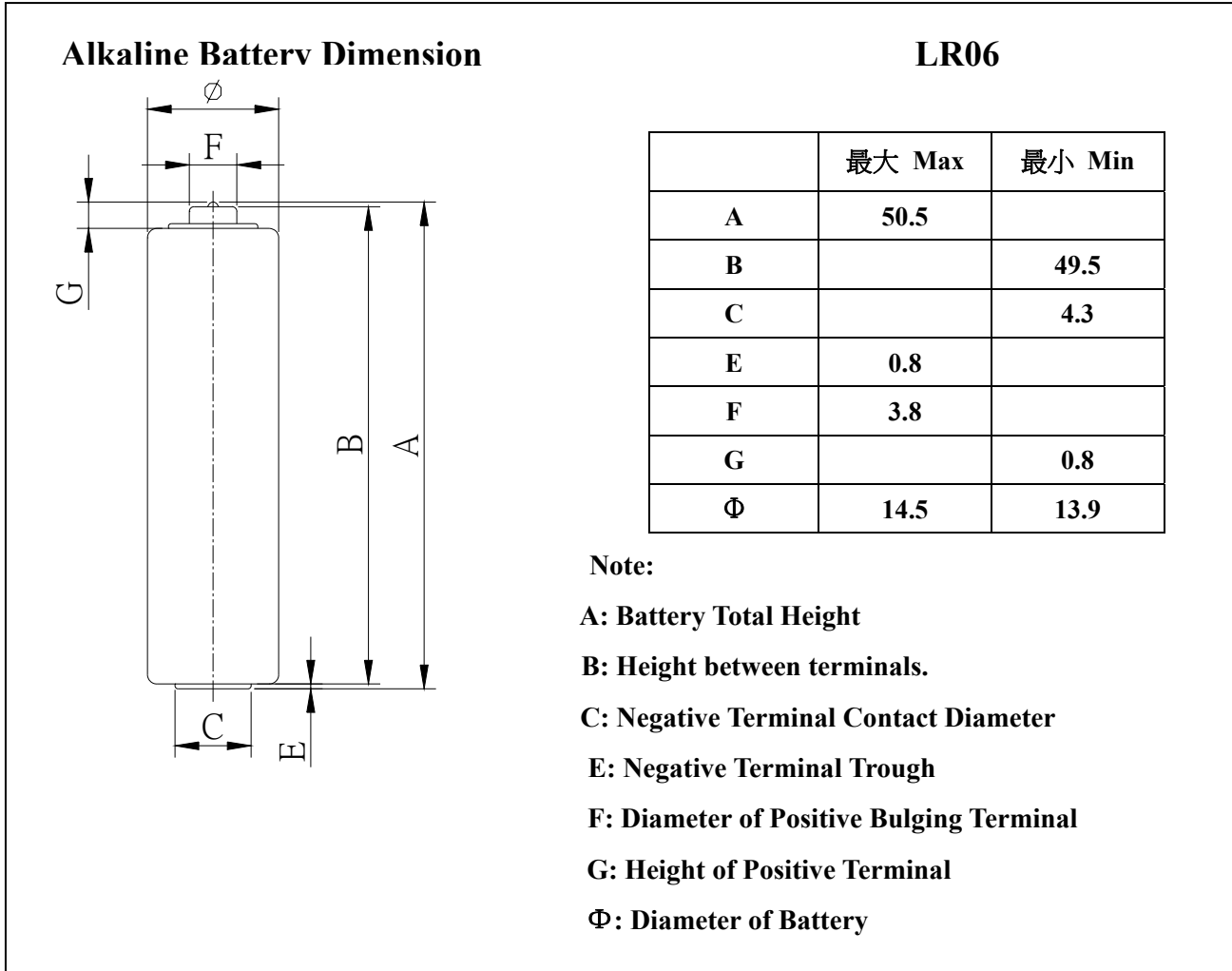


Figure 2
Discharge Curve: Discharge Method: 3.9Ω load, 24Hrs/Day continuous discharge until termination voltage of 0.9V. Test temperature: 20±2℃, RH: 65 ±15%.

