

WUXI CITY BAOLAI BATTERY CO.,LTD

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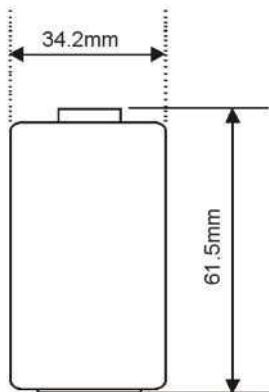
TECHNICAL SPECIFICATION

1.About

alkaline battery

Model#: LR20/D

尺寸Dimension:



Chemical System: Zn/KOH — H₂O/MnO₂

Nominal voltage: 1.5V

Average weight: 142g

Jacket: Foil Label

Referencedocument: 2006/66/EC,2013/56/EU,GB/T8897.2-2013, IEC60086-1:2011

2.Ratings

	Nominal Voltage	1.5V
Temperature Range for operation	Standard Temperature	20°C±2°C
	Special Temperature	30°C±2°C
	High temperature	45°C±2°C
Humidity Range for Storage	Standard Humidity	45%~75%
	Special Humidity	35%~65%
Dimension	Diameter	32.8~33.0mm
	Height	60.8±0.2 mm
	Approx weight	142g

3. Electrical Characteristics

Battery status	Off-load voltage (V)	On-load voltage (V)	Short circuit current (A)	Acceptance Standard
Initial within (30days)	1.60	1.52	>10	GB2828 commonly sampling AQL=0.4
After 12 months	1.58	1.48	>8	

Conditions: $3.9\Omega \pm 0.5\%$ load resistance, measuring time 0.3 seconds, temperature at $20 \pm 2^\circ\text{C}$, the hair spring type ampere meter with $\pm 0.5\%$ accuracy (0.5level) shall be used.

4. Service Time

Discharge condition			Standard	Average minimum discharge time	
Discharge load(Ω)	Daily discharge	End voltage (V)		Initial within 30 days	After 12months under $20^\circ\text{C} \pm 2^\circ\text{C}$
3.9 Ω	24h/d	0.9		42 h	42 h
3.9 Ω	1h/d	0.9	25 h	47.5h	43 h
2.2 Ω	1h/d	0.8	15 h	24.5h	21 h
2.2 Ω	24h/d	0.9		21 h	20 h
10 Ω	4h/d	0.9	81 h	128 h	117 h

Capacitance: 18.5AH (S.T. 25mA constant-current discharge to 0.8 V)

(Inspect standard: discharge 9 sample-batteries for each condition. It passes when average discharge time is no less than Rated Time and the quantity of the batteries which the value is under 80% of Rated Value is no more than one)

5. Anti-leakage characteristic

Item	Condition	Period	Characteristics	Inspect standard
Over-discharge characteristics	3.9Ω continuous discharges At temp. 20°C ±2 °C, relative humidity 65%±20%RH	0.6h	no deformation exceeding the specified dimensions nor visible leakage	N=10 Ac=1 Re=2
Storage characteristics	At temp. 60°C±2°C, relative humidity 70%RH	20days		N=40 Ac=0 Re=1
	At room temp.	12 month		

6.Safety

Item	Condition	Period	Characteristics	Inspect standard
Short circuit characteristics	Temp.: 20°C±2°C	24 H	There shall be no explosion	N=8 Ac=0 Re=1
Abuse characteristics	Short circuit 4 pieces of battery in series, one of the batteries has to be connected with its polarity reversed	24 H		

7.Marks:

the following marks will be printed or stamped on the batteries' body

- (1) Model
- (2) Nominal Voltage
- (3) pole
- (4) Warning

8.Storage life

Under room temp and suitable environment, its shelf time is 5 years

9.Discharge Curves

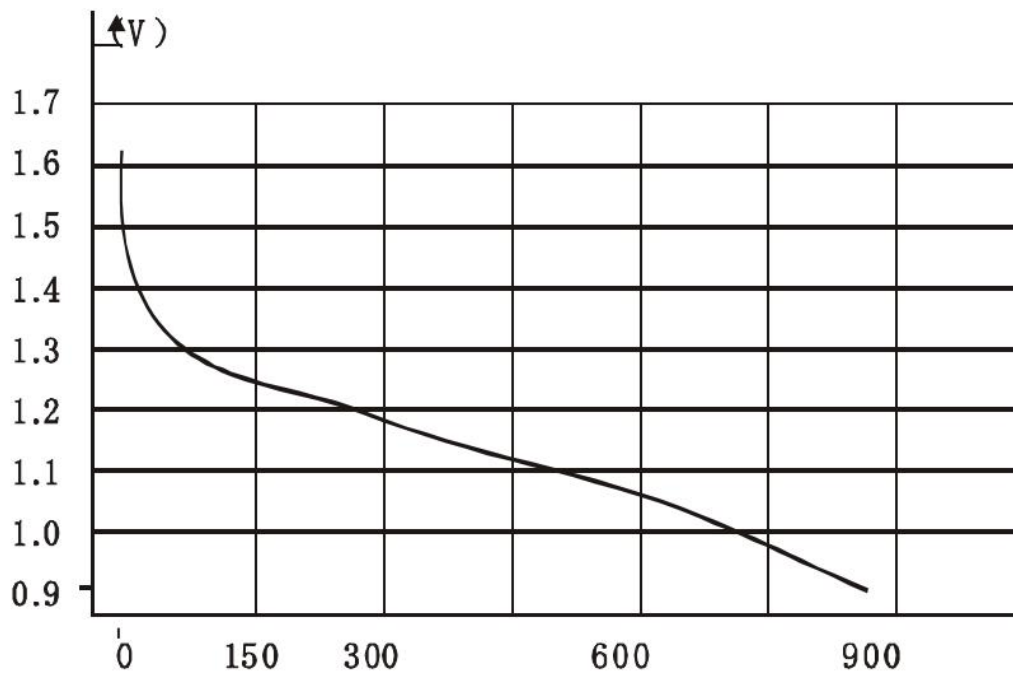
1) End Voltage: 0.90V

Discharge Pattern: 4min/h,8h/day

Temperature: 20°C±2°C

Load Resistance: 2.2Ω

Minimum Duration: 810min



2) End Voltage: 0.90V

Discharge Pattern: 1h/day

Load Resistance: 3.9 Ω

Minimum Duration: 2500min

