

ELECTRO DH s.a.

COMPONENTES PARA ELECTRONICA, TELEFONÍA E ILUMINACIÓN



DATOS TÉCNICOS

MARCA : DH

CÓDIGO: 52.230

DESCRIPCIÓN: Pila alcalina LR-20/D

ESPECIFICACIONES TÉCNICAS:

Adjuntamos dos hojas.

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1. Scope

This specification defines the technical requirements for LR20 Alkaline Battery.

Cross References: ATC IEC JIS GB(CHINA) OTHER
 LR20 LR20 AM-1 IR20 D

2. Purpose

To assure that any LR20 battery manufactured or procured by ATC will meet or exceed our customer's expectations.

3. Reference Document

IEC 60086-2:2000
 IEC 60086-1:2000
 GB/T 7112-1998

4. Chemical System

Alkaline Zinc-Manganese Dioxide (KOH Electrolyte), Mercury: Less than 250 ppm.

5. Nominal Voltage : 1.5volt

6. Average Weight : 140.0g

7. Jacket: Foil Label

8. Nominal Capacity

13000mah(Conditions:10Ω discharge 4hours per day at 20±2°C, end point voltage 0.9v)

9. Electrical Characteristics

	Off-load Voltage (v)	On-load Voltage (v)	Short circuit current	Acceptance Standard
Initial within 30 day	1.57	1.50	8.0	GB2828 commonly I sampling AQL=0.4
After 12 months	1.55	1.45	7.0	

(conditions: 3.9Ω ±0.5% load resistance, measuring time 0.3 seconds, temperature at 20±2°C, the hair spring type ampere meter with ±0.5% accuracy (0.5level) shall be used.

10. Service Time

Discharge load	Discharge Condition		IEC Standard	Average Minimum Discharge Time	
	Daily discharge time	End Point Voltage (v)		Initial within 30 day	After 12mth at 20±2°C
10Ω	4h	0.9	80h	100h	90h
2.2Ω	1h	0.8	15h	18h	16.5h
3.9Ω	1h	0.9	25h	33.0h	30.0h
2.2Ω	4m/h-8h/d	0.9	786min	1000min	900min
3.9Ω	24h	0.9		30.0h	27.0h

Satisfaction standard: 9 pieces of battery will be tested for each discharging.

The result of the average discharging time from each discharging standard shall be equal to or more than the average minimum time requirement.

11. Electrolyte Leakage Proof Characteristics

Item	Condition	Period	Characteristics	Acceptance Standard
Over-discharge characteristics	2Ω continuous discharge at temp. 20±2°C, Relative Humidity: 65±20%RH	48hours	There shall be no deformation exceeding the specified dimensions, nor leakage recognized by human eye.	N=10 Ac=1 Re=2
Storage characteristics	At temp. 45±2°C, Relative Humidity: 70% RH	90days		N=40 Ac=1 Re=2
	At room temp.	12 months		

12. Safety Characteristics

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

13. Caution for Use

- (1) Since the battery is not manufactured for recharging, there are risks of electrolyte leakage or causing damage to the device if the battery is charged.
- (2) The battery shall be installed with its “+” and “-” in correct position.
- (3) Short-circuiting, heating, disposing of into fire and disassembling the battery are prohibited.
- (4) Avoid using old and new batteries together.

14. Shelf Life

3 years after delivery under proper storage condition.

15. Discharge Curves Page 3, Page 4,

16. Dimension : Page 5