

# fullwat®

professional solutions

LR6F22FUB • Alkaline zinc manganese dioxide battery



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**1. Scope**

This specification defines the technical requirements for LR6F22FUB alkaline battery.

**2. Purpose**

To assure that any LR1 battery manufactured or procured by Fullwat<sup>®</sup> will meet or exceed our customers expectations.

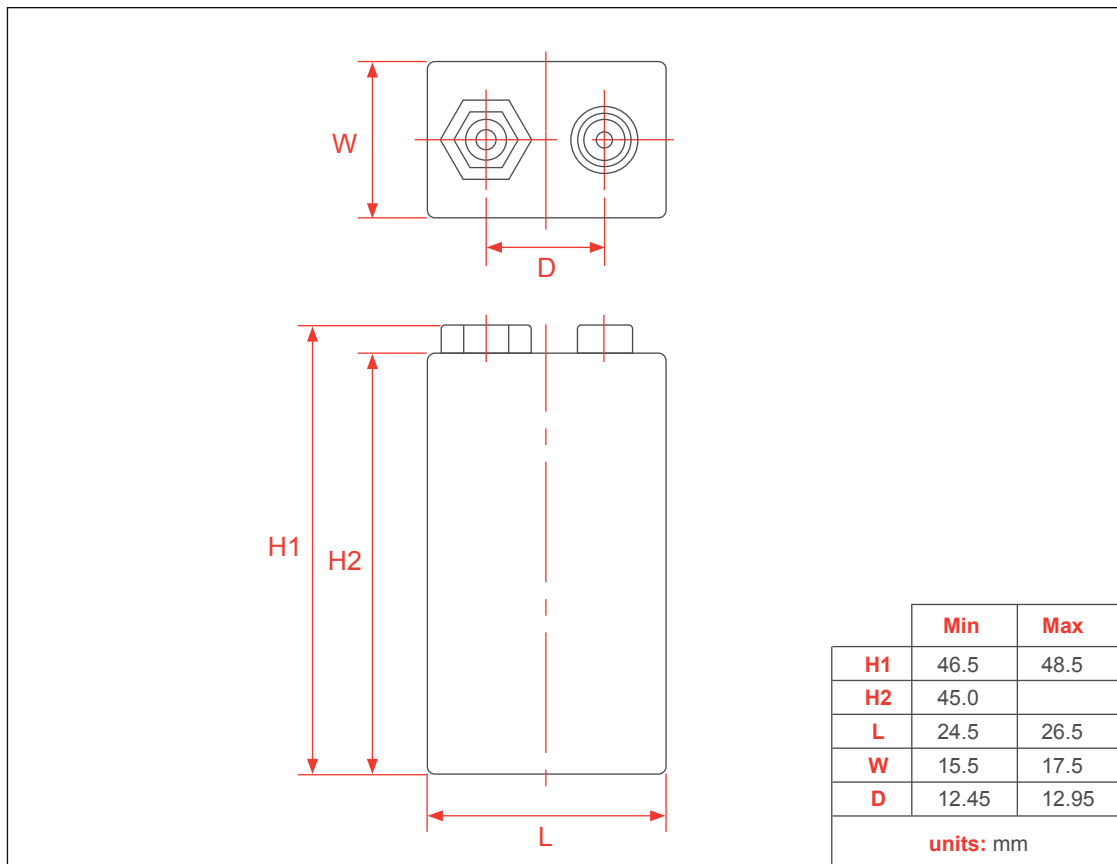
**3. Reference document**

- IEC 60086-1:2000     **Primary Batteries-Part1: General**
- IEC 60086-2:2000     **Primary Batteries-Part2: Physical and Electrical Specification**
- GB/T 7112-1998     **Zinc-Manganese Dry Batteries of R03, R1, R6, R14 and R20  
Alkaline Zinc-Manganese Dry Batteries of  
LR03, LR1, LR6, LR14 and LR20**

**4. Chemical system**

Alkaline Zinc-Manganese Dioxide (KOH Electrolyte),  
**MERCURY AND CADMIUM ARE NOT ADDED IN THE BATTERY**

**5. Dimensions & structure**



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## 6. Product specification

Item	Parameter
Nominal Voltage	9V
Weight:	Approximate 45g
Capacity	Conditions: 180 discharge 24hours per day at 20±2°C, end point voltage 4.8V
Nominal Capacity:	600mAh
Minimum Capacity:	570mAh

## 7. Electrical characteristics

	Off-load Voltage (V)	On-load Voltage (V)	Short circuit current (A)	Acceptance Standard
Initial within 30 days	9.6	9.3	3	GB2828 commonly I sampling AQL=0.4
After 12months	9.4	9.1	2.7	

**Note** - Conditions: 180Ω load resistance, measuring time 0.3 seconds, temperature at 20±2°C, the hairspring type ampere meter with ±0.5% accuracy (0.5 level) shall be used.

## 8. Service time

(condition: test temp. 20±2°C, tested within 30 days after delivery)

Discharge load	Daily discharge time	End Point Voltage (V)	Initial within 30day	After 12mth at 20±2°C
270Ω	1h	5.4V	24H	23H
180Ω	1h	4.8V	16H	15H
180Ω	24h	4.8V	14H	13H

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

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

## 9. 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.

## 10. Shelf life

5 years after delivery under proper storage condition.

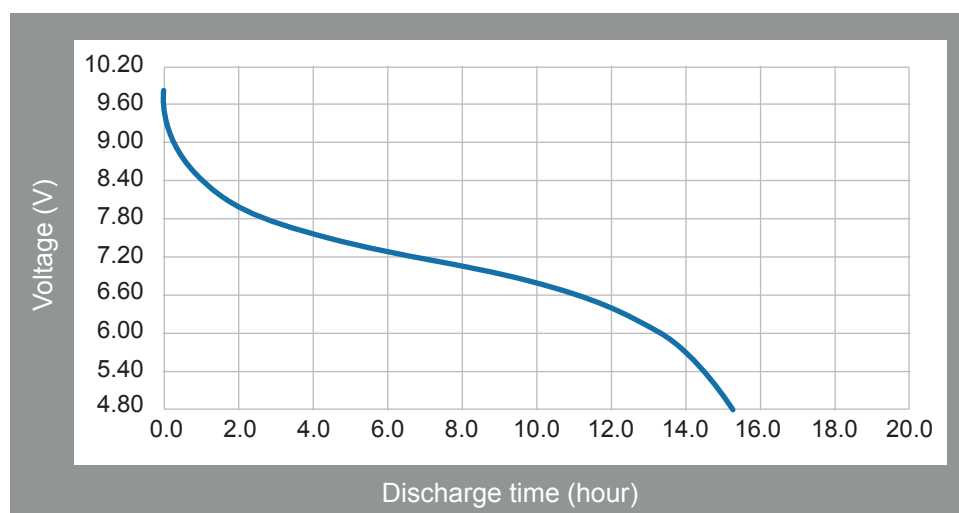
## 11. Expiry period marking

- Production date and shelf life 3 years marked on the finished cell.
- For private, can mark according to customer's requirements.

## 12. Discharge curves

Load 180 ohms continuous discharge 24h/d, termination voltage: 5.4V;

Temperature:  $20\pm 2^{\circ}\text{C}$ ; humidity conditions:  $65\pm 15\%$ ;



## 13. Warranty

The warranty is specified in our warranties section of *Terms of Sales*. If the product is to be stored for more than three months it is necessary to perform the appropriate maintenance to ensure the good condition of the batteries. Consult our annex to the *Terms of Sales* on the recommended maintenance.