

# POWER-XTRA

Model : Power-Xtra PX-LR1130/AG10 1.5V Battery

Ver: A0

NO: 900.869.503.094

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## PX-LR1130/AG10 Battery Spec

Model: PX-LR1130/AG10

Stock Code: 900.869.503.094

Cell Type LR1130/AG10

Nominal Voltage: 1.5V

<b>Draft</b>	<b>Checking</b>	<b>Approved</b>	<b>Customer Confirmation</b>
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## 1. Scope

This specification is applicable to Power Xtra's alkaline zinc-manganese dioxide button cell: LR1130/AG10

## 2. Designations

POWER XTRA	IEC	ANSI	JIS	OTHERS
LR1130	LR54	1168A	A10	AG10, 189

## 3. Chemical System

Zinc-Manganese Dioxide (Potassium Hydroxide Electrolyte)

## 4. Nominal Voltage

1.5 V

## 5. Average Weight

1.2 g

## 6. Typical Capacity

80 mAh

Condition: Rated at 15KΩ at 21°C, continuous discharge to end-point voltage 0.9V.

## 7. Electrical Characteristics

Item	Resistance	Fresh Battery (Within 30 days after delivery)	After 12 months	Test Conditions
Off-load Voltage	-	1.52V~1.65V	1.50V~1.60V	Temp: 21°C
On-load Voltage	15KΩ	1.50V~1.60V	1.48V~1.60V	Temp: 21°C

## 8. Discharge Performance

Discharge Conditions				Minimum Average Duration	
Resistance	Discharge Schedule	End-point Voltage	Environmental Conditions	Fresh Battery	After 12 Months
15KΩ	Continuous	0.9V	Temp: 21°C	970h	880h

## 9. Safety Characteristics

Test Item	Condition	Period	Requirements	Acceptance Standard
External Short Circuit	Temp: 20±5°C	24h	There shall be no explosion of battery	N=9 Ac=0 Re=1

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## 10. Marking

The following marking will be printed, stamped or impressed on the body of the battery:

- a. Designation: LR1130 or AG10
- b. Polarity marking: “+” Marked on anode, “-” Marked on cathode

## 11. Cautions

### 11.1 Storage

Batteries shall be stored in well-ventilated, dry and cool conditions. For normal storage, the temperature should be between 10°C and 25°C and should never exceed 30°C, the relative humidity should be at (55±20)%. High temperature or high humidity may cause deterioration of the battery performance or surface corrosion.

### 11.2 Use and Disposal

- (1) Always insert batteries correctly with regard to the polarities ( + and - ) marked on the battery and the equipment. Batteries which are incorrectly placed into equipment may be short-circuited, or charged. This can result in a rapid temperature rise causing leakage, explosion and may cause personal injury.
- (2) Batteries should not be short-circuited, heated, dismantled and thrown into fire.
- (3) Do not charge batteries. Attempting to charge a non-rechargeable battery may cause internal gas and/or heat generation resulting in leakage, explosion and may cause personal injury.
- (4) Do not mix old and new batteries or batteries of different types or brands. When replacing batteries, replace all of them at the same time with new batteries of the same brand and type. When batteries of different brand or type are used together, or new and old batteries are used together, some batteries may be over-discharged due to a difference of voltage or capacity. This can result in leakage, explosion and may cause personal injury.
- (5) Exhausted batteries should be immediately removed from equipment and properly disposed of. When discharged batteries are kept in the equipment for a long time, electrolyte leakage may occur causing damage to the appliance and/or personal injury.
- (6) Do not weld or solder directly to batteries. The heat from welding or soldering directly to a battery may cause internal short-circuiting resulting in leakage, explosion and may cause personal injury.
- (7) Keep batteries out of the reach of children to prevent swallow. In case of ingestion of a cell or a battery, the person involved should seek medical assistance promptly.
- (8) Store unused batteries in their original packaging away from metal objects. If already unpacked, do not mix or jumble batteries to avoid them short-circuiting with each other.

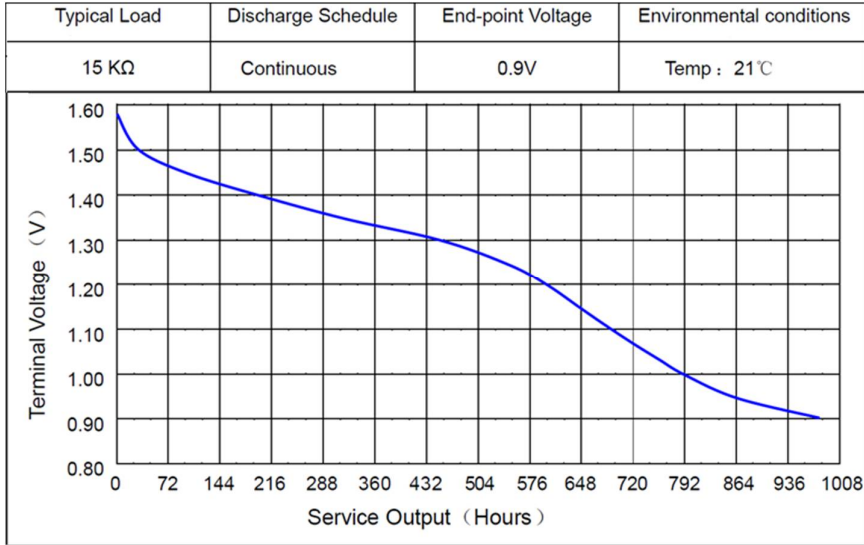
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## 12. Typical Discharge Characteristics



## 13. Dimensions & Structure

