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› Energizer E90 N Alkaline 1.5 Volt Battery (12-Pack) User Manual

Energizer E90

Energizer E90 N Alkaline 1.5 Volt Battery User Manual

Model: E90

1. INTRODUCTION

This manual provides essential information for the safe and effective use of Energizer E90 N Alkaline 1.5 Volt Batteries. These batteries are designed to provide reliable, long-lasting power for a variety of compatible electronic devices. Please read this manual thoroughly before use and retain it for future reference.

The Energizer E90 N Alkaline battery is a 1.5-volt power source, cross-referenced with types such as LR1, LR01, 910A, MN9100, 4001, 810, 23-023, AM5, UM5, UM-5, and SUM5. They feature a Zinc-Manganese Dioxide (Zn/MnO₂) composition with no added mercury or cadmium, reflecting a commitment to responsible power solutions.



Image 1.1: A pack of twelve Energizer E90 N Alkaline 1.5 Volt Batteries, illustrating the product packaging.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety.

1. **Identify Battery Compartment:** Locate the battery compartment on your electronic device. Refer to your device's instruction manual for specific details.
2. **Observe Polarity:** Carefully note the positive (+) and negative (-) markings inside the device's battery compartment and on the Energizer E90 battery itself.
3. **Insert Batteries:** Insert the Energizer E90 batteries according to the correct polarity. The positive (+) end of the battery should align with the positive (+) terminal in the compartment, and the negative (-) end with the negative (-) terminal.
4. **Secure Compartment:** Close the battery compartment securely.



Image 2.1: A single Energizer E90 N Alkaline 1.5 Volt Battery, showing its cylindrical shape and terminal markings.

Important: Always ensure batteries are inserted with correct polarity. Incorrect insertion can damage the device or cause battery leakage.

3. OPERATING INSTRUCTIONS

Once properly installed, Energizer E90 N Alkaline batteries will power your compatible device. The operational aspect is primarily managed by the device itself.

- **Device Activation:** Turn on your electronic device as per its specific operating instructions.
- **Performance:** These batteries are designed for long-lasting energy, suitable for devices requiring consistent power consumption.
- **Battery Life Indication:** Monitor your device's battery indicator, if available, to determine when replacement is needed.

4. MAINTENANCE AND STORAGE

Proper care and storage extend battery life and ensure safe operation.

- **Storage:** Store unused batteries in their original packaging in a cool, dry place at room temperature (ideally 21°C or 70°F). Avoid extreme temperatures and direct sunlight.
- **Shelf Life:** Energizer E90 batteries have a shelf life of up to 10 years (or 7 years at 21°C) when stored correctly.
- **Avoid Mixing:** Do not mix old and new batteries, or batteries of different types or brands, in the same device. This can lead to leakage or reduced performance.
- **Remove from Unused Devices:** If a device will not be used for an extended period, remove the batteries to prevent potential leakage and damage.
- **Clean Contacts:** Periodically clean battery contacts in devices and on the batteries themselves with a clean, dry cloth or pencil eraser to ensure good electrical connection.

5. TROUBLESHOOTING

If your device is not functioning correctly after installing new batteries, consider the following:

- **Device Not Powering On:**
 - Verify that the batteries are inserted with the correct polarity (+ and -).
 - Check if the battery contacts in the device and on the batteries are clean and free of corrosion.
 - Ensure the battery compartment is closed securely.
 - Test the batteries in another compatible device, if possible, to confirm they are functional.
- **Reduced Performance or Short Battery Life:**
 - Confirm that all batteries in the device are new and of the same type and brand.
 - The device may have high power consumption, leading to faster depletion.
 - Ensure the batteries have not been stored in extreme temperatures.
- **Battery Leakage:** If you observe any leakage, immediately remove the batteries (wearing protective gloves) and dispose of them properly. Clean the device's battery compartment thoroughly.

6. SPECIFICATIONS

Feature	Detail
Brand	Energizer
Model Number	E90
Battery Cell Composition	Alkaline (Zinc-Manganese Dioxide)
Voltage	1.5 Volts
Product Dimensions	3.2 x 1.4 x 0.7 inches
Number of Batteries	12 (included in pack)
Shelf Life	Up to 10 years (7 years at 21°C)
Cross Reference	LR1, LR01, 910A, MN9100, 4001, 810, 23-023, AM5, UM5, UM-5, SUM5
Recommended Uses	Camera, various electronic devices requiring N-type batteries

7. SAFETY INFORMATION AND DISPOSAL

WARNING: Improper use of batteries may result in leakage, fire, or explosion, causing personal injury or property damage.

- **Keep Out of Reach of Children:** Batteries can be a choking hazard. If swallowed, seek immediate medical attention.
- **Do Not Recharge:** These are primary (non-rechargeable) alkaline batteries. Attempting to recharge them can cause leakage, fire, or explosion.
- **Do Not Disassemble:** Do not open, puncture, or modify batteries.
- **Avoid Extreme Temperatures:** Do not expose batteries to fire, excessive heat, or direct sunlight.
- **Avoid Short-Circuiting:** Do not short-circuit the positive (+) and negative (-) terminals.
- **Handle Leaking Batteries with Care:** If a battery leaks, avoid contact with skin and eyes. If contact occurs, flush with plenty of water and seek medical attention.
- **Disposal:** Dispose of used batteries according to local regulations. Many communities offer recycling programs for batteries. Do not dispose of batteries in household waste or fire.

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Energizer E90 N Alkaline batteries, please refer to the packaging at the time of purchase or visit the official Energizer website. Warranty terms typically cover manufacturing defects.

For further assistance or inquiries, you may contact Energizer customer support through their official channels. You can also visit the Panasonic Store on Amazon for related products, though this specific product is branded Energizer.

