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LiCB A23

LiCB A23 23A 12V Alkaline Battery Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective use of LiCB A23 23A 12V Alkaline Batteries. Please read these instructions carefully before use and retain for future reference.



Figure 1: LiCB A23 23A 12V Alkaline Batteries (5-pack).

2. PRODUCT FEATURES

- **High Quality:** Tested under strict quality control standards. CE and ROHS certified. Grade A cells ensure longer battery life and long-lasting power.
- **Reliable Performance:** Each 23A / A23 battery provides a full 12 volts charge.
- **Extended Shelf Life:** Designed for a 3-year shelf life, ensuring readiness when needed.



Figure 2: Illustrates the long-lasting and high-quality nature of the batteries.

3. COMPATIBILITY

LiCB A23 23A 12V Alkaline Batteries are primarily used in devices requiring a 12V power source. These include, but are not limited to:

- Garage Door Openers Remote Controls
- Doorbells
- Car Alarms Remote Controls
- Burglar Alarms Remote Controls
- Lighters
- Keyless Entry Access Control Devices
- Toys
- Other Electronic Devices

These batteries are compatible with and can replace the following battery types:

- GP23AE
- 21/23
- A23S
- 23A
- 23AE
- V23GA
- MN21B2PK
- A23bpz
- MN21
- GP23A
- LRV08
- L1028
- RVO8
- MS21
- E23A
- K23A
- 8LR932
- 8LR23
- VR22
- 8F10R
- EL12

- 23GA



Figure 3: Common applications for A23 12V batteries.

4. USAGE INSTRUCTIONS

1. **Identify Battery Compartment:** Locate the battery compartment on your device. This is typically found on the back or bottom of remote controls, key fobs, or other small electronic devices.
2. **Open Compartment:** Use a small screwdriver or appropriate tool if necessary to open the battery compartment.
3. **Remove Old Batteries:** Carefully remove any old batteries, noting their orientation.
4. **Insert New Batteries:** Insert the new LiCB A23 23A 12V batteries according to the polarity markings (+ and -) inside the compartment. Ensure the positive (+) end aligns with the positive terminal and the negative (-) end aligns with the negative terminal.
5. **Close Compartment:** Securely close the battery compartment.
6. **Test Device:** Test your device to ensure proper functionality.

Positive Electrode



Negative electrode



Figure 4: Proper identification of positive and negative terminals for correct installation.

5. SAFETY WARNINGS

To prevent injury, leakage, fire, or explosion, observe the following precautions:

- **Keep Out of Reach of Children:** Batteries can be swallowed. If swallowed, seek medical attention immediately.
- **Do Not Recharge:** These are non-rechargeable batteries. Attempting to recharge may cause leakage or explosion.
- **Do Not Disassemble:** Do not disassemble, crush, puncture, or modify the batteries.
- **Avoid Short Circuits:** Do not short-circuit the positive (+) and negative (-) terminals.
- **Proper Storage:** Store batteries in their original packaging until ready to use. Keep them away from metal objects to prevent short circuits.
- **Temperature:** Do not expose batteries to temperatures above 100°C (212°F) or to fire.
- **Disposal:** Dispose of used batteries properly according to local regulations.
- **Avoid Mixing:** Do not mix new and used batteries, or batteries of different types or brands.



Figure 5: General warning symbol for safety precautions.

6. SPECIFICATIONS

Attribute	Value
Model Name	A23
Item Model Number	LW-23A-5
Brand	LiCB
Battery Type	Alkaline
Voltage	12V
Unit Count	5 Count
Product Dimensions	5.9 x 0.4 x 2.7 inches
Item Weight	1.69 ounces
Manufacturer	LiCB
Date First Available	June 22, 2017

CELL SPECIFICATION

Nominal capacity	52mAh
Nominal voltage	12V
Final discharging voltage	7.2V
Humidity range	60 ± 15%RH
Average weight	8.0g



Figure 6: Detailed cell specifications for the A23 12V battery.

7. STORAGE AND DISPOSAL

- **Storage:** Store unused batteries in a cool, dry place at room temperature. Keep them in their original packaging to prevent accidental short-circuiting.
- **Disposal:** Do not dispose of batteries in household waste. Consult your local waste management facility for proper disposal or recycling options. Many retailers offer battery recycling programs.



Figure 7: Emphasizing environmentally responsible disposal of batteries.

8. TROUBLESHOOTING

- **Device Not Working:**
 - Ensure batteries are inserted with correct polarity (+/-).
 - Check if the battery compartment is clean and free of corrosion.
 - Verify that the device itself is functioning correctly with other known good batteries.
- **Short Battery Life:**
 - Ensure the batteries are fresh and within their shelf life.
 - Check the device for any issues that might cause excessive power drain.
 - Avoid storing batteries in extreme temperatures.

9. WARRANTY AND SUPPORT

For any questions regarding the LiCB A23 23A 12V Alkaline Batteries, please refer to the product packaging for manufacturer contact information or visit the official LiCB website for support details.