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› ele ELEOPTION 4Pcs PLC Lithium Battery Instruction Manual for Allen Bradley 1756-BA2 HHT Series 3V 1200mAh BR2/3A-AB

ele ELEOPTION BR2/3A-AB/3.0V

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1. INTRODUCTION

This instruction manual provides essential information for the safe and effective use of the ele ELEOPTION 4Pcs PLC Lithium Battery, model BR2/3A-AB/3.0V. These batteries are designed to provide reliable backup power for various Allen Bradley Programmable Logic Controllers (PLCs), specifically compatible with the 1756-BA2 HHT Series and other listed models. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1.1: Four ele ELEOPTION PLC Lithium Batteries, model BR2/3A-AB/3.0V, packaged together.

2. SAFETY INFORMATION

Lithium batteries require careful handling. Failure to follow these safety guidelines can result in fire, explosion, or personal injury.

- **Do not recharge:** These batteries are non-rechargeable. Attempting to recharge them may cause leakage, fire, or explosion.
- **Do not short-circuit:** Avoid connecting the positive and negative terminals directly. This can cause excessive heat, fire, or explosion.
- **Do not expose to high temperatures:** Keep batteries away from heat sources, direct sunlight, and do not incinerate. High temperatures can cause leakage or explosion.
- **Do not disassemble or modify:** Tampering with the battery can lead to internal short circuits, leakage, or explosion.
- **Keep out of reach of children:** Store batteries in a safe place to prevent accidental ingestion or misuse.
- **Proper disposal:** Dispose of used batteries according to local regulations. Do not dispose of with household waste.
- **Avoid contact with skin/eyes:** In case of leakage, avoid contact with battery fluid. If contact occurs, rinse immediately with water and seek medical attention.

3. PRODUCT OVERVIEW

The ele ELEOPTION PLC Lithium Battery (Model: BR2/3A-AB/3.0V, Type: 1756-BA2) is a high-capacity 3.0V lithium battery designed for industrial applications, specifically as a backup power source for Allen Bradley PLCs. Each battery features a compact design with pre-attached red and black wires terminating in a compatible connector for easy installation.

Key Features:

- Model: 1756-BA2 BR2/3A-AB 3.0V Battery
- Smart cable design for secure connection
- Compact size for portability and easy integration
- Designed for reliable performance in industrial environments
- Good heat shedding properties for safety



Image 3.1: Close-up view of a single ele ELEOPTION PLC Lithium Battery, highlighting its compact form factor and connector.

4. SETUP AND INSTALLATION

This battery is intended for use as a replacement or new installation in compatible Allen Bradley PLC systems. Always refer to your specific PLC's instruction manual for detailed battery replacement procedures and safety precautions.

General Installation Steps:

1. **Power Down:** Before attempting any battery replacement, ensure the PLC system is completely powered down and disconnected from all power sources to prevent electrical shock or damage to the PLC.
2. **Locate Battery Compartment:** Identify the battery compartment or location on your specific Allen Bradley PLC model. This is often clearly marked.
3. **Remove Old Battery (if applicable):** Carefully disconnect the old battery's connector from the PLC board. Note the orientation of the connector.
4. **Insert New Battery:** Connect the new ele ELEOPTION PLC Lithium Battery to the designated port on the PLC board. Ensure the connector is fully seated and correctly oriented (red wire typically positive, black wire negative).

5. **Secure Battery:** Place the battery securely within its compartment or mounting area, ensuring it does not interfere with other components.
6. **Power Up:** Once the new battery is installed, re-connect power to the PLC system and power it on. Verify that any battery warning indicators are off.
7. **Dispose of Old Battery:** Dispose of the old battery responsibly according to local environmental regulations.

Warning: Incorrect polarity or improper installation can damage the PLC or the battery. Always double-check connections.

5. OPERATING INSTRUCTIONS

Once correctly installed, the ele ELEOPTION PLC Lithium Battery operates automatically, providing continuous backup power to maintain PLC memory and real-time clock functions during power outages or when the PLC is powered down. As a non-rechargeable battery, no user intervention is required for its operation beyond initial installation.

- **Monitoring:** Regularly check your PLC's status indicators for any low battery warnings. The lifespan of the battery will vary depending on the PLC model and usage conditions.
- **Replacement:** Replace the battery promptly when a low battery warning is indicated by the PLC to prevent data loss.

6. MAINTENANCE

These lithium batteries require minimal maintenance. Adhering to the following guidelines will help ensure their longevity and safe operation:

- **Storage:** Store unused batteries in a cool, dry place, away from direct sunlight and extreme temperatures. Keep them in their original packaging until ready for use to prevent accidental short-circuiting.
- **Inspection:** Periodically inspect installed batteries for any signs of physical damage, leakage, or corrosion. Replace immediately if any issues are observed.
- **Cleaning:** If necessary, gently clean the battery's exterior with a dry cloth. Do not use liquids or abrasive cleaners.
- **Disposal:** Never dispose of lithium batteries in regular household trash. They contain materials that can be harmful to the environment. Always follow local regulations for battery recycling or hazardous waste disposal.

7. TROUBLESHOOTING

If you encounter issues after installing the battery, consider the following troubleshooting steps:

- **PLC Battery Warning Light Remains On:**
 - Ensure the battery connector is fully and correctly seated in the PLC port.
 - Verify the battery's polarity is correct.
 - Check if the battery itself is faulty. Try a new battery from the pack.
 - Consult your PLC's manual for specific battery warning reset procedures.
- **PLC Does Not Retain Memory After Power Cycle:**
 - This indicates the battery is not providing backup power. Re-check installation as described above.

- Ensure the battery is not depleted. Replace with a new battery if necessary.
- Verify the PLC's battery circuit is functioning correctly (refer to PLC manual).

If problems persist after following these steps, contact the PLC manufacturer's technical support or a qualified technician.

8. SPECIFICATIONS

Specification	Detail
Model Number	BR2/3A-AB/3.0V
Type	1756-BA2
Cell Type	Lithium
Voltage	3.0V
Capacity	1200mAh
Rechargeable	No
Dimensions (approx.)	7.0 x 6.0 x 3.0 cm
Weight (approx.)	20g

Compatible Allen Bradley PLC Series:

- 1745-B1, 1747-BA, 1756-BA1, 1756-BA2, 1763-BA, 1770-XO, 1770-HMA, 1770-XR, 1770-XY, 1770-XYB, 1770-XYC, 1770-XYV, 1770-XZ, 1771-HMA, 2706-NB1
- 1746-BAS, 1747-PT1 Series
- 1756-L1, 1756-L1M1, 1756-L1M2, 1756-L1M3 Series
- 1771 Series, 1771-DB Series, 1772 Series, 1775 Series
- 1785-L40B/L, 1785-L60B/L Series
- 6008-LTV Series
- A-2/05, A-2/16, A-2/17 Series
- B, B-2/16, B-2/17 Series
- C-2/16, C-2/17 Series
- D-2/16, D-2/17 Series
- DL20 DataLiner Series
- HHT Series
- Logix 5550, Logix 5555, Logix 5563 Series
- MINI-PLC-2 Series, MINI-PLC-2/16, MINI-PLC-2/17 Series
- PLC-2, PLC-3 Series, PLC-4 Series, PLC-5 Series
- PLC-5/11, PLC-5/20, PLC-5/30, PLC-5/40, PLC-5/60 Series
- PLC-5VME Series
- SLC-100, SLC-150 Series
- SLC-5/01, SLC-5/02, SLC-5/03, SLC-5/04, SLC-5/05 Series
- SLC-500 Series

9. WARRANTY AND SUPPORT

For warranty information regarding your ele ELEOPTION PLC Lithium Battery, please refer to the terms and conditions provided at the time of purchase or contact your seller directly. Specific warranty details may vary.

If you require technical assistance or have questions not covered in this manual, please contact the ele ELEOPTION customer support through the retailer's platform or the manufacturer's official channels.