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› Dakota Lithium 12V 10Ah LiFePO4 Deep Cycle Battery User Manual (Model: CR12V10Ah)

Dakota Lithium CR12V10Ah

Dakota Lithium 12V 10Ah LiFePO4 Deep Cycle Battery User Manual

Model: CR12V10Ah

INTRODUCTION

This manual provides essential information for the safe and efficient use of your Dakota Lithium 12V 10Ah LiFePO4 Deep Cycle Battery. Please read all instructions carefully before installation and operation.

The Dakota Lithium 12V 10Ah LiFePO4 battery is designed for long-lasting performance and reliability in various deep cycle applications, including fish finders, ice fishing, kayaks, camping, solar lighting, and home alarm systems.

SAFETY INFORMATION

WARNING:

- Do not crush, heat above 120°F (49°C), or incinerate the battery.
- Do not charge above 15V.
- Do not disassemble the battery.
- Do not short circuit the battery terminals.
- Always use a compatible LiFePO4 charger.
- Keep out of reach of children.

The battery contains a Battery Management System (BMS) for optimal performance and safety, controlling cell balance, low/high voltage cutting, short circuit protection, and temperature protection.

SETUP

Unpacking

Carefully remove the battery from its packaging. Inspect for any visible damage. If damage is present, contact customer support immediately.

Initial Charge

It is recommended to fully charge the battery before its first use. Use a compatible Dakota Lithium LiFePO4 charger.

Connect the charger to the battery terminals, ensuring correct polarity (red to positive, black to negative). The charger will indicate when charging is complete.



Image: The Dakota Lithium 12V 10Ah LiFePO4 battery, showing its compact design and F2 terminals.

Connecting to Devices

Connect your device (e.g., fish finder, kayak motor) to the battery terminals. Ensure secure connections and correct polarity to prevent damage to the battery or device. The battery features F2 terminals for easy connection.

OPERATING INSTRUCTIONS

General Use

The Dakota Lithium 12V 10Ah battery is designed for deep cycle applications. It provides consistent power output throughout its discharge cycle. The integrated BMS protects against over-discharge, ensuring a long lifespan.

Temperature Range

This battery operates effectively in a wide temperature range, from -20°F (-29°C) to 120°F (49°C). For optimal performance and longevity, avoid operating or charging the battery outside this range.



Image: Diagram illustrating the safe operating temperature range for the Dakota Lithium battery, from -20°F to 120°F.

Applications

- **Fish Finders:** Provides stable and long-lasting power for marine electronics.
- **Kayaks:** Lightweight design is ideal for powering trolling motors or accessories on kayaks.
- **Ice Fishing:** Reliable performance in cold weather conditions.
- **Camping:** Powers portable devices and lighting for extended outdoor trips.
- **Solar Lighting:** Efficient energy storage for solar setups.
- **Home Alarm Systems:** Provides backup power for security systems.

APPLICATIONS



FISH FINDER



UPS SYSTEM



**SMALL BATTERY
REPLACEMENT**

Image: Visual examples of the Dakota Lithium 12V 10Ah battery in various applications, such as powering a fish finder, a UPS system, and serving as a small battery replacement.

CHARGING

Always use a charger specifically designed for LiFePO4 batteries. Using an incompatible charger can damage the battery and void the warranty. Ensure the charger's voltage matches the battery's voltage (12V).

Connect the charger's positive lead to the battery's positive terminal and the negative lead to the battery's negative terminal. Monitor the charging process. The BMS will prevent overcharging.

MAINTENANCE

- **Cleaning:** Keep the battery terminals clean and free of corrosion. Use a dry cloth to wipe down the battery casing.
- **Storage:** For long-term storage, charge the battery to approximately 50% capacity and store it in a cool, dry place. Avoid extreme temperatures.
- **Inspection:** Periodically inspect the battery for any signs of physical damage or swelling.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Battery not charging	Incompatible charger, charger not connected properly, battery deeply discharged (BMS protection activated).	Ensure using a LiFePO4 compatible charger. Check connections. If deeply discharged, a specialized recovery charger may be needed, or contact support.
Device not powering on	Battery discharged, incorrect wiring, device fault, BMS protection activated due to over-discharge or short circuit.	Charge the battery. Verify wiring polarity. Check device functionality. If BMS activated, charge the battery to reset.
Reduced run time	Battery not fully charged, high power draw, operating in extreme temperatures.	Ensure full charge before use. Reduce power consumption if possible. Operate within recommended temperature range.

If you encounter issues not covered here, or if troubleshooting steps do not resolve the problem, please contact Dakota Lithium customer support.

SPECIFICATIONS

- Model:** CR12V10Ah
- Voltage:** 12V
- Capacity:** 10Ah (120 Wh)
- Battery Cell Composition:** Lithium-Phosphate (LiFePO4)
- Dimensions (D x W x H):** 5.94" x 2.55" x 3.74"
- Weight:** 2.35 pounds
- Terminals:** F2 Terminal
- Cycles:** 2000+ under recommended conditions
- Built-in:** Battery Management System (BMS)
- UPC:** 864726000023



Image: The Dakota Lithium 12V 10Ah battery with its physical dimensions (5.94"D x 2.55"W x 3.74"H) clearly indicated.

WARRANTY INFORMATION

Dakota Lithium batteries are backed by an 11-year warranty. This warranty covers defects in materials and workmanship under normal use and service. For full warranty terms and conditions, please refer to the official Dakota Lithium website or contact customer support.

The warranty does not cover damage caused by misuse, abuse, unauthorized modification, improper installation, or use of incompatible charging equipment.

SUPPORT AND CONTACT

For technical assistance, warranty claims, or general inquiries, please contact Dakota Lithium customer support:

Website: dakotalithium.com

Email: Refer to the website for contact email.

Phone: Refer to the website for contact phone number.

Please have your model number (CR12V10Ah) and purchase date available when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question