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› Dakota Lithium 72V 55Ah Lithium Battery User Manual

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BRAND: DAKOTA LITHIUM

Model: 55ah

INTRODUCTION

This manual provides essential information for the safe and effective use of your Dakota Lithium 72V 55Ah Lithium Iron Phosphate (LiFePO₄) battery. This high-performance battery is designed to offer superior power and longevity compared to traditional lead-acid batteries, making it an ideal replacement for various electric vehicles, golf carts, and electric outboard motors.



Image: The Dakota Lithium 72V 55Ah Lithium Iron Phosphate (LiFePO₄) battery, showcasing its robust design and terminals.

Key features include: **POWERHOUSE PERFORMANCE** - This single 72V 55Ah battery, designed with Lithium Iron Phosphate (LiFePO4) technology, offers three times the power while being significantly lighter than lead acid batteries, ensuring exceptional lifetime value. **VERSATILE COMPATIBILITY** - Built as a replacement for 72V electric vehicles, golf carts, and electric outboard motors. A single Dakota Lithium battery weighs only 1/5 as much as a set of lead acid batteries. **ENHANCED VEHICLE PERFORMANCE** - Experience increased performance, speed, and handling for 72V golf carts, people movers, and neighborhood electric vehicles, unlocking new possibilities for your adventures. **EXPANDABLE RANGE** - Link multiple units in parallel to extend your driving range. Depending on your motor controller's amp rating, you may require two or more batteries for optimal performance.

SETUP AND INSTALLATION

Before installation, ensure you have the correct tools and safety equipment. Always disconnect existing power sources before handling batteries. This battery is designed for direct replacement in 72V systems. Verify your system's voltage and current requirements match the battery's specifications.



Image: The Dakota Lithium 72V 55Ah battery with its physical dimensions (20.5" x 10.5" x 8.62") clearly marked, aiding in installation planning.

When installing, ensure secure connections to prevent arcing and power loss. For optimal performance and extended range, multiple units can be linked in parallel. Consult a qualified technician if you are unsure about the wiring configuration for your specific application.



Image: Visual representation of the Dakota Lithium 72V 55Ah battery's versatile applications, including golf carts, electric motors, and electric vehicles.

OPERATING INSTRUCTIONS

The Dakota Lithium 72V 55Ah battery provides consistent power output throughout its discharge cycle. It is designed for deep cycle applications, meaning it can be discharged significantly without damage, unlike lead-acid batteries. For charging, use a LiFePO4 compatible charger (charger not included with battery). Ensure the charger's voltage and current output are appropriate for a 72V LiFePO4 battery.

300% MORE POWER

1/3 THE WEIGHT

5X FASTER CHARGING

5X LONGER THAN LEAD ACID



Image: Infographic highlighting the performance benefits of the Dakota Lithium battery, including 300% more power, 1/3 the weight, 5x faster charging, and 5x longer lifespan compared to lead-acid batteries.

Monitor your battery's state of charge using compatible battery monitors. Avoid over-discharging the battery below its recommended voltage cut-off to maximize lifespan. The battery's internal Battery Management System (BMS) will protect against overcharge, over-discharge, over-current, and short circuits.

MAINTENANCE

Dakota Lithium LiFePO₄ batteries require minimal maintenance. Unlike lead-acid batteries, they do not require watering or equalization charges. Keep the battery terminals clean and free of corrosion. Periodically check all connections to ensure they are tight and secure.

SAFE AND RELIABLE FROM

-20°F

120°F



Image: Diagram illustrating the wide safe operating temperature range of the Dakota Lithium battery, from -20°F to 120°F, ensuring reliable performance in various climates.

Store the battery in a cool, dry place when not in use for extended periods. It is recommended to store the battery at a partial state of charge (around 50%) if storing for several months. The battery's internal Battery Management System (BMS) protects against temperature extremes.

TROUBLESHOOTING

Most issues can be resolved by checking connections and ensuring the battery is adequately charged. If the battery is not providing power, first check all wiring for loose connections or damage. Verify that the charger is functioning correctly and is compatible with LiFePO4 batteries.

- **No Power Output:** Check battery terminals for corrosion or loose connections. Ensure the battery is charged. The internal BMS may have activated due to over-discharge, over-current, or temperature extremes. Allow the battery to rest or connect to a compatible charger to reset the BMS.
- **Battery Not Charging:** Verify the charger is plugged in and operational. Ensure the charger is rated for 72V

LiFePO4 batteries. Check for any fault indicators on the charger.

- **Reduced Performance:** This could indicate a low state of charge or an issue with the connected system. Ensure the battery is fully charged and that the system's power draw is within the battery's specifications.

For persistent issues or complex problems, please refer to the support section or contact Dakota Lithium customer service for assistance.

SPECIFICATIONS

Attribute	Value
Brand	Dakota Lithium
Model Number	55ah
Product Dimensions	20.5 x 10.5 x 8.62 inches
Battery Cell Composition	Lithium Iron Phosphate (LiFePO4)
Voltage	72V
Capacity	55Ah
Energy (Wh)	3960 Wh
ASIN	B0CKFHKFVJ
Date First Available	October 4, 2023

WARRANTY AND SUPPORT

The Dakota Lithium 72V 55Ah battery comes with an exceptional **11-year warranty**, providing long-term peace of mind. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical support, or any questions regarding your battery, please contact Dakota Lithium customer service. Keep your purchase receipt or proof of purchase handy when contacting support.

Additional protection plans may be available for purchase to extend coverage beyond the standard warranty period. Please refer to your point of purchase for details on available protection plans.

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