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› Dakota Lithium 48V 15 Amp LiFePO4 Battery Charger User Manual

Dakota Lithium 48V 15 Amp Charger

Dakota Lithium 48V 15 Amp LiFePO4 Battery Charger User Manual

Model: 48V 15 Amp Charger

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Dakota Lithium 48V 15 Amp LiFePO4 Battery Charger. Please read all instructions carefully before use to ensure proper function and to prevent damage to the charger or battery.



Image: The Dakota Lithium 48V 15 Amp LiFePO4 Battery Charger, a compact red unit with cables.

IMPORTANT SAFETY INFORMATION

- **Compatibility:** This charger is designed exclusively for Dakota Lithium LiFePO4 batteries. **Do not use with lead-acid, SLA, or any other battery chemistries.** Using this charger with incompatible batteries can cause damage, fire, or injury.
- **Ventilation:** Ensure adequate ventilation during charging. Do not cover the charger. The robust aluminum case is designed for rapid cooling.
- **Environment:** Use the charger in a dry, well-ventilated area. Avoid exposure to water, moisture, or extreme temperatures.
- **Connections:** Always connect the charger to the battery before plugging it into an AC power source. Disconnect from AC power before disconnecting from the battery.
- **Inspection:** Regularly inspect the charger, cables, and connectors for any signs of damage. Do not use a damaged charger.

- **Children and Pets:** Keep the charger and battery out of reach of children and pets.

SETUP

Follow these steps to set up your Dakota Lithium 48V 15 Amp Charger:

1. **Unpack:** Carefully remove the charger from its packaging and inspect for any visible damage.
2. **Placement:** Place the charger on a stable, non-flammable surface in a well-ventilated area. Ensure there is sufficient space around the charger for airflow.
3. **Battery Connection:** Connect the charger's Anderson plug with ring terminals to your 48V Dakota Lithium LiFePO4 battery. Ensure the polarity is correct (red to positive, black to negative). The Anderson plug provides a secure, hassle-free connection. This charger is compatible with Connect-Ease kits for simplified connections.
4. **Power Connection:** Once the charger is securely connected to the battery, plug the charger's AC power cord into a standard wall outlet (110-120V AC).



Image: The Dakota Lithium 48V 15 Amp Charger showing its Anderson plug and ring terminals for battery connection.

CHARGE RATE

**50AH BATTERY IN 3 HOURS OR
A 100AH BATTERY IN <6.5 HOURS**



Image: A visual representation confirming the charger's compatibility with 48V Lithium Batteries.

OPERATING INSTRUCTIONS

The Dakota Lithium 48V 15 Amp Charger is designed for efficient and safe charging of your LiFePO4 battery.

Charging Process:

1. After connecting the charger to the battery and then to AC power as described in the Setup section, the charger will automatically begin the charging cycle.
2. The charger features SMART BMS communication, which allows it to restart the Dakota Lithium Battery Management System (BMS) for safety, reducing the risk of short circuits or excessive amp draw.
3. Monitor the charging indicator lights (if present on your model) to determine the charging status. Refer to the charger's labeling for specific light indications.
4. The charger provides a fast charge rate. For example, a 50Ah battery can be charged in approximately 3 hours, and a 100Ah battery in less than 6.5 hours.

5. Once the battery is fully charged, the charger will automatically stop charging or switch to a maintenance mode to prevent overcharging.
6. To disconnect, first unplug the charger from the AC power outlet, then disconnect the Anderson plug from the battery.

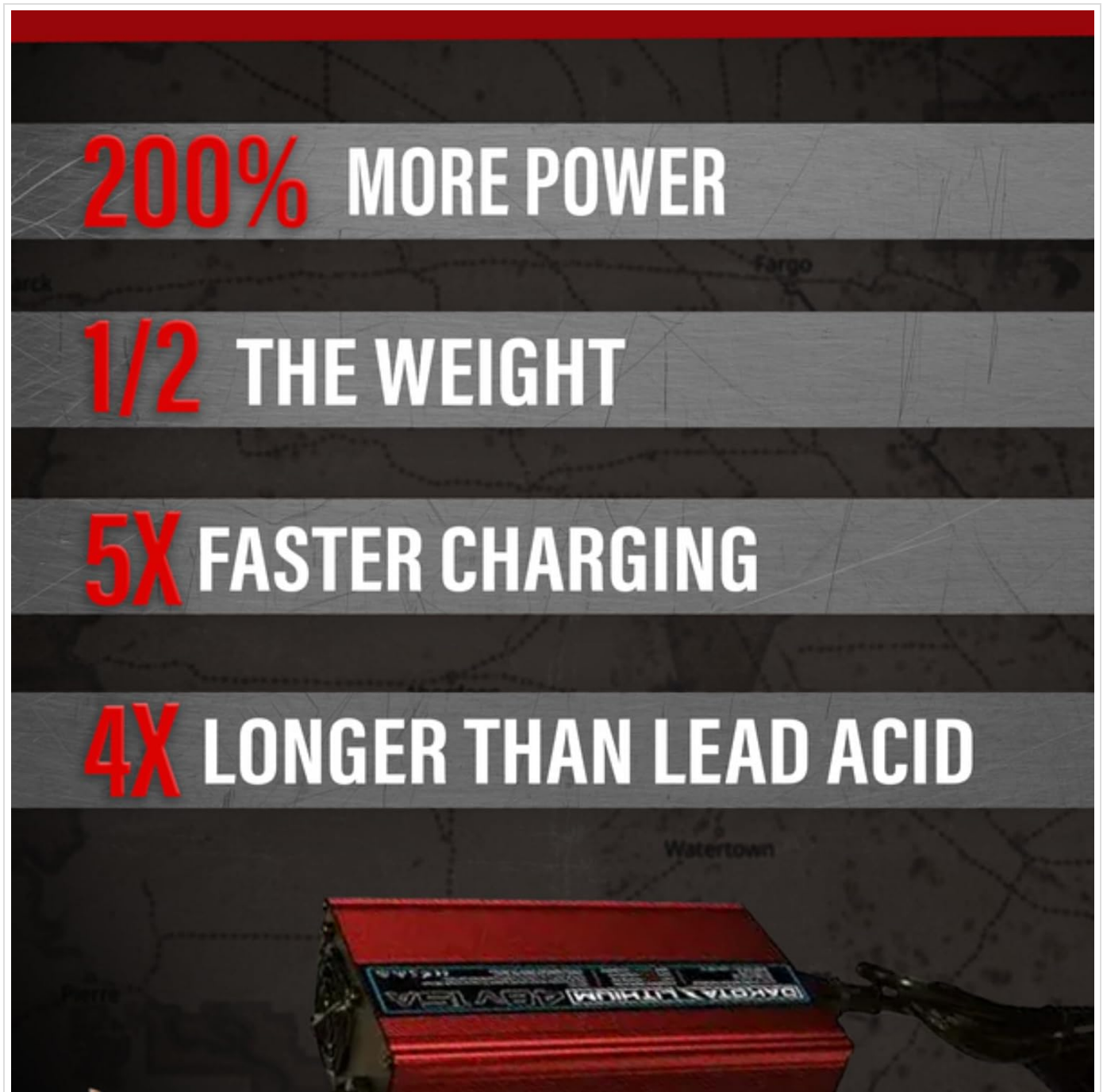


Image: A graphic illustrating the fast charge rates, indicating a 50Ah battery charges in 3 hours and a 100Ah battery in less than 6.5 hours.

MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your charger:

- **Cleaning:** Keep the charger clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Storage:** When not in use, store the charger in a cool, dry place, away from direct sunlight and moisture.
- **Cable Inspection:** Periodically inspect the AC power cord and battery connection cables for any cuts, fraying, or damage. Replace damaged cables immediately.

- **Ventilation:** Ensure the cooling fins on the aluminum case remain clear of obstructions to allow for efficient heat dissipation.

TROUBLESHOOTING

If you encounter issues with your charger, refer to the following common solutions:

Problem	Possible Cause	Solution
Charger not turning on or charging	No AC power; Loose connections; Battery BMS in protection mode.	Check AC outlet and power cord. Ensure all connections are secure. The charger's SMART BMS communication should restart the battery's BMS; if not, try disconnecting and reconnecting the battery.
Slow charging	Incorrect charger for battery size; High ambient temperature.	Ensure the charger is appropriate for your battery's capacity. Ensure adequate ventilation around the charger.
Charger gets hot	Normal operation; Insufficient ventilation.	Some heat is normal during charging. Ensure the charger is in a well-ventilated area and its cooling fins are not obstructed.

If the problem persists after attempting these solutions, please contact Dakota Lithium customer support.

SPECIFICATIONS

Feature	Specification
Model	48V 15 Amp Charger
Output Voltage	57.6 Volts
Output Current	15 Amps
Compatibility	Dakota Lithium LiFePO4 Batteries (48V)
Product Dimensions	3 x 4 x 3 inches (7.62 x 10.16 x 7.62 cm)
Item Weight	1 pound (0.45 kg)
Color	Red
Manufacturer	Dakota Lithium

WARRANTY INFORMATION

For specific warranty details regarding your Dakota Lithium 48V 15 Amp Charger, please refer to the official Dakota Lithium website or the warranty documentation included with your purchase. Warranty terms and conditions may vary.

SUPPORT

If you require further assistance, technical support, or have questions not covered in this manual, please contact Dakota Lithium customer service:

- **Website:** Visit the official [Dakota Lithium website](#) for FAQs, support resources, and contact information.

- **Contact:** Refer to your product packaging or the Dakota Lithium website for direct contact methods such as phone or email.

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