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> DDC SPORT 48V 20Ah Lithium-ion Battery for M1 Folding Electric Bike User Manual

DDC SPORT M1

DDC SPORT 48V 20Ah Lithium-ion Battery for M1 Folding Electric Bike User Manual

Model: M1

INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your DDC SPORT 48V 20Ah Lithium-ion Battery, specifically designed for the M1 Folding Electric Bike. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of your battery.



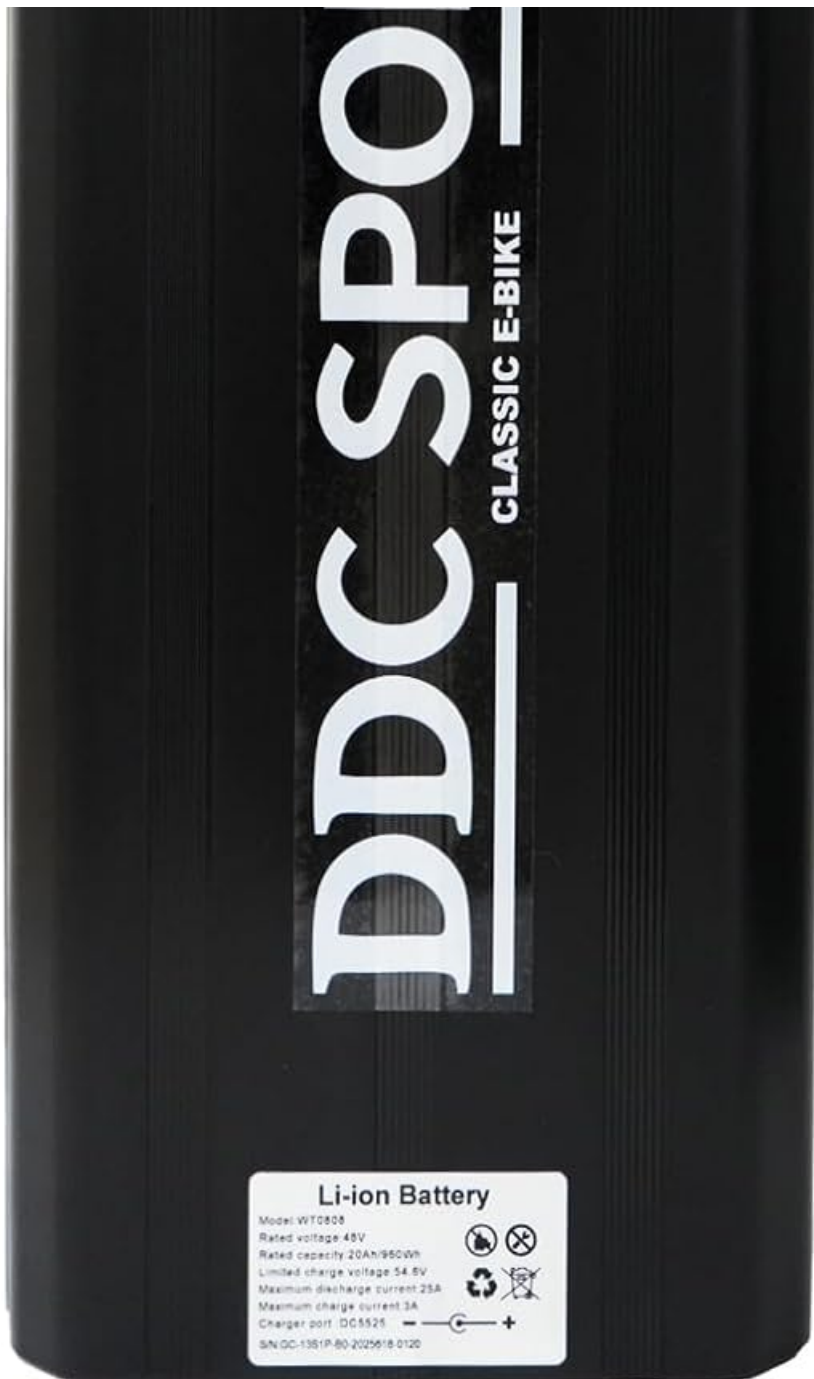


Image: The DDC SPORT 48V 20Ah Lithium-ion Battery, a black rectangular unit with the DDC SPORT logo prominently displayed on its side.

SAFETY GUIDELINES

Adhering to these safety guidelines is crucial for preventing damage, injury, or fire. Lithium-ion batteries require careful handling.

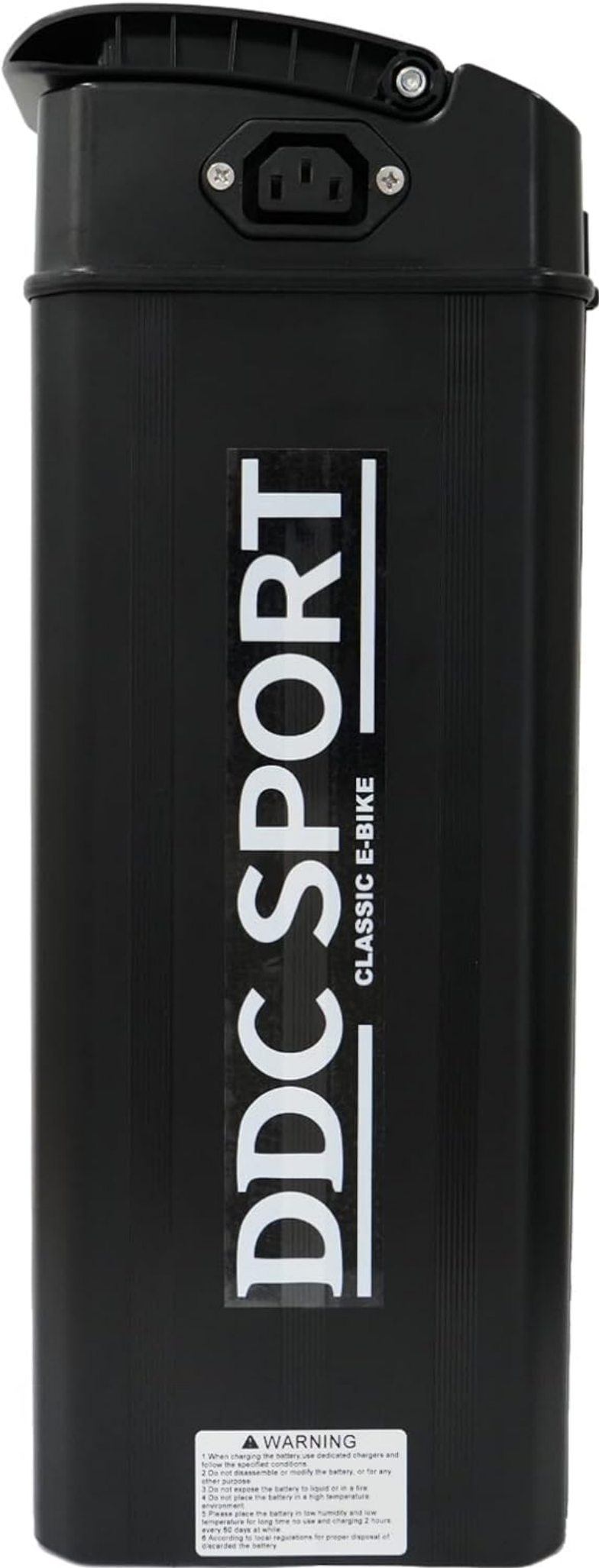
- Always use dedicated chargers specifically designed for 48V Lithium-ion batteries. Using incompatible chargers can cause damage or fire.
- Do not expose the battery to water, moisture, or extreme temperatures (below -10°C or above 45°C).
- Avoid dropping, puncturing, or subjecting the battery to strong impacts.
- Do not disassemble, modify, or attempt to repair the battery. This can lead to serious injury or malfunction.
- Keep the battery away from children and pets.

- In case of leakage, unusual odor, or overheating, immediately disconnect the battery and contact support.
- Ensure proper ventilation during charging.

SETUP AND INSTALLATION

This section guides you through the initial setup and installation of your DDC SPORT M1 e-bike battery.

1. **Unpacking:** Carefully remove the battery from its packaging. Inspect for any visible damage.
2. **Compatibility Check:** Verify that the battery dimensions (14.17 x 5.12 x 3.35 inches) and the DC charging port are compatible with your DDC SPORT M1 folding electric bike.
3. **Installation:**
 - Locate the battery compartment on your M1 folding electric bike.
 - Carefully slide the battery into the compartment, ensuring it seats securely.
 - Use the provided keys to lock the battery into place, if applicable. Remove the keys after locking.
4. **Initial Charge:** Before first use, fully charge the battery. Refer to the "Charging the Battery" section for detailed instructions.



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CLASSIC E-BIKE

▲ WARNING
1. When charging the battery, use dedicated chargers and follow the specified conditions.
2. Do not disassemble or modify the battery, or for any other purpose.
3. Do not expose the battery to liquid or in a fire.
4. Do not place the battery in a high temperature environment.
5. Please place the battery in low humidity and low temperature for long time no use and charging 2 hours every 50 days at white.
6. According to local regulations for proper disposal of discarded the battery.

Image: Top view of the DDC SPORT battery, highlighting the DC charging port and the key slot for securing the battery.

OPERATING THE BATTERY

Charging the Battery

Proper charging extends battery life and ensures safe operation.

1. Ensure the battery is securely installed or placed on a stable, non-flammable surface if charging off the bike.
2. Connect the dedicated 48V charger to a power outlet.
3. Insert the charger's DC plug into the battery's DC charging port.
4. Monitor the charger's indicator light (refer to your charger's manual for specific light indications).
5. Charge the battery until it is full. Avoid overcharging by disconnecting the charger once charging is complete. Typical charging time is 4-6 hours, but may vary.
6. Always disconnect the charger from the battery and power outlet after charging.

Using the Battery with Your E-bike

- Once installed and charged, turn on your e-bike's power system according to its specific instructions.
- The battery's internal 30A BMS protection board manages power output and protects against overcharging, over-discharging, over-current, and short circuits.
- Monitor your e-bike's battery level indicator during use.
- Avoid completely draining the battery, as this can reduce its lifespan. Recharge when the battery level is low.

MAINTENANCE AND STORAGE

General Maintenance

- Keep the battery clean and dry. Wipe with a soft, dry cloth. Do not use water or cleaning agents directly on the battery.
- Regularly inspect the battery casing for any signs of damage, cracks, or swelling.
- Ensure the charging port is free from dust and debris.

Storage

- If storing the battery for an extended period, charge it to approximately 50-60% capacity.
- Store the battery in a cool, dry place, away from direct sunlight, heat sources, and flammable materials.
- Avoid storing in temperatures below -10°C or above 45°C.
- For long-term storage, check the battery charge every 2-3 months and recharge to 50-60% if necessary to prevent deep discharge.

TROUBLESHOOTING

This section addresses common issues you might encounter with your battery.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Battery not charging	<ul style="list-style-type: none"> • Charger not connected properly • Faulty charger or power outlet • Battery deeply discharged • Damaged charging port 	<ul style="list-style-type: none"> • Ensure all connections are secure. • Test the charger with another device or use a different outlet. • Try charging for a longer period. If still unresponsive, contact support. • Inspect the charging port for damage. Contact support if damaged.
E-bike not powering on with battery	<ul style="list-style-type: none"> • Battery not fully charged • Battery not securely installed • Battery lock not engaged • E-bike power system issue 	<ul style="list-style-type: none"> • Charge the battery fully. • Re-install the battery, ensuring it clicks into place. • Ensure the battery is locked with the key. • Consult your e-bike's manual or contact e-bike manufacturer support.
Reduced range or power	<ul style="list-style-type: none"> • Battery not fully charged • Aging battery • Extreme temperatures 	<ul style="list-style-type: none"> • Ensure battery is fully charged before each ride. • Battery capacity naturally degrades over time. • Operating in very cold or hot conditions can affect performance.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact DDC SPORT customer support.

SPECIFICATIONS

Brand	DDC SPORT
Model Number	M1
Battery Type	Lithium-ion
Voltage	48 Volts
Capacity	20 Ah
BMS Protection	30A (Overcharging, Over-discharging, Over-current, Short Circuit)
Charging Port Type	DC Port
Dimensions (L x W x H)	14.17 x 5.12 x 3.35 inches (36 x 13 x 8.5 cm)
Recommended Use	DDC SPORT M1 Folding Electric Bike
Reusability	Rechargeable

WARRANTY AND SUPPORT

Warranty Information

The DDC SPORT 48V 20Ah Lithium-ion Battery is backed by a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects under normal use conditions. It does not cover damage resulting from misuse, accident, unauthorized modification, or improper installation.

Customer Support

Should you encounter any problems with your battery or have questions regarding its operation, please do not hesitate to contact DDC SPORT customer service. Our team is committed to providing quick and efficient assistance to resolve your issues.

Please refer to your purchase documentation or the DDC SPORT official website for the most current contact information.