

## ICONSPORTSS 6-DMF-20

# ICONSPORTSS 6-DMF-20 12V 20AH SLA Battery Instruction Manual

Sealed Lead Acid (SLA) Rechargeable Maintenance-Free Battery

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and effective use, installation, maintenance, and troubleshooting of your ICONSPORTSS 6-DMF-20 12V 20AH Sealed Lead Acid (SLA) Rechargeable Maintenance-Free Battery. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions when handling and operating batteries:

- **Eye Protection:** Always wear appropriate eye protection (safety glasses) when working with batteries.
- **Ventilation:** Ensure adequate ventilation when charging batteries to prevent the accumulation of potentially explosive gases.
- **No Short Circuits:** Avoid short-circuiting the battery terminals. This can cause severe burns, fire, or explosion. Do not place tools or metallic objects on top of the battery.
- **Correct Polarity:** Always connect the battery with correct polarity (positive to positive, negative to negative). Incorrect connections can damage the battery and equipment.
- **Keep Away from Children:** Batteries contain hazardous materials. Keep them out of reach of children.
- **Proper Disposal:** Do not dispose of batteries in household waste. Recycle them at an authorized recycling center.
- **No Disassembly:** Do not attempt to open or disassemble the battery. There are no user-serviceable parts inside.

## 3. PRODUCT OVERVIEW

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The ICONSPORTSS 6-DMF-20 is a 12V 20AH Sealed Lead Acid (SLA) battery designed for reliable power delivery in various applications. Its maintenance-free design ensures convenience and long service life.

## Key Features:

- **High Discharge Rate:** Engineered to provide consistent power even under demanding conditions.
- **Maintenance-Free:** Sealed design eliminates the need for water refilling.
- **Long Service Life:** Durable construction for extended operational use.
- **Wide Temperature Range:** Capable of operating effectively in various environmental conditions.
- **Versatile Application:** Suitable for motorcycles, dirt bikes, ATVs, go-karts, golf carts, scooters, and E-bikes.

## Package Contents:

- 1 x ICONSPORTSS 6-DMF-20 12V 20AH SLA Battery



Figure 1: A front-side view of the ICONSPORTSS 6-DMF-20 12V 20AH Sealed Lead Acid battery, showing its green casing and black top with red and blue terminals.



Figure 2: An image illustrating the dimensions of the ICONSPORTSS 6-DMF-20 battery: 180mm (7.1 inches) length, 78mm (3.1 inches) width, and 170mm (6.7 inches) height.



Figure 3: A close-up view of the red positive terminal on the ICONSPORTSS 6-DMF-20 battery, showing the screw connection point.



Figure 4: A close-up view of the blue negative terminal on the ICONSPORTSS 6-DMF-20 battery, showing the screw connection point.

## 4. SETUP

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### 4.1 Unpacking and Inspection

1. Carefully remove the battery from its packaging.
2. Inspect the battery for any signs of physical damage, cracks, or leaks. Do not use a damaged battery.
3. Verify that the terminals are clean and free from corrosion.

## 4.2 Initial Charging

While SLA batteries are typically shipped with a partial charge, it is recommended to fully charge the battery before its first use to ensure maximum capacity and extend its lifespan.

- Use a charger specifically designed for 12V Sealed Lead Acid batteries with appropriate voltage and current ratings.
- Connect the positive (+) terminal of the charger to the positive (+) terminal of the battery (red).
- Connect the negative (-) terminal of the charger to the negative (-) terminal of the battery (blue).
- Follow the charger manufacturer's instructions for charging duration.

## 4.3 Installation

1. Ensure the vehicle or equipment is turned off and the ignition key is removed.
2. Locate the battery compartment.
3. Place the battery securely in the compartment, ensuring it is stable and will not move during operation.
4. Connect the positive (+) cable from your equipment to the positive (+) terminal of the battery (red). Tighten the connection securely.
5. Connect the negative (-) cable from your equipment to the negative (-) terminal of the battery (blue). Tighten the connection securely.
6. Double-check all connections for tightness and correct polarity.

# 5. OPERATING

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## 5.1 General Use

The ICONSPORTSS 6-DMF-20 battery is designed for deep cycle and high discharge applications. It can be used as a primary power source for compatible vehicles and equipment.

- Avoid consistently deep discharging the battery below 10.5V, as this can reduce its lifespan.
- Ensure the battery is adequately charged before prolonged use.

## 5.2 Charging Guidelines

Proper charging is crucial for the battery's performance and longevity.

- Always use a charger compatible with 12V SLA batteries.
- Recommended charging voltage: 14.4V - 14.7V for cyclic use, 13.5V - 13.8V for float use.
- Avoid overcharging, which can lead to battery damage. Many modern chargers have automatic shut-off features.
- Charge the battery in a well-ventilated area.

# 6. MAINTENANCE

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The 6-DMF-20 is a maintenance-free battery, meaning it does not require water refilling. However, some general care is recommended:

- **Regular Inspection:** Periodically check the battery casing for any signs of damage, swelling, or leaks.
- **Terminal Cleaning:** Keep the battery terminals clean and free from corrosion. Use a wire brush and a mixture of baking soda and water to clean any corrosion, then rinse with clean water and dry thoroughly. Ensure connections are tight.

- **Storage:** If the battery will not be used for an extended period, store it in a cool, dry place. Ensure the battery is fully charged before storage and periodically recharge it every 3-6 months to prevent deep discharge and sulfation.
- **Temperature:** Avoid exposing the battery to extreme temperatures for prolonged periods.

## 7. TROUBLESHOOTING

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### 7.1 Battery Not Holding Charge

- **Check Charger:** Ensure your charger is functioning correctly and is compatible with 12V SLA batteries.
- **Check Connections:** Verify that all charging connections are secure and free from corrosion.
- **Battery Age:** Batteries have a finite lifespan. If the battery is old, it may no longer hold a full charge.
- **Deep Discharge:** Repeated deep discharges can permanently damage the battery's capacity.

### 7.2 Low Power Output

- **Check Charge Level:** Ensure the battery is fully charged.
- **Check Connections:** Loose or corroded connections can impede power delivery.
- **Load Requirements:** Verify that the equipment's power requirements do not exceed the battery's capacity or discharge rate.
- **Battery Health:** A failing battery may exhibit reduced power output.

If you continue to experience issues, please contact ICONSPORTSS customer support.

## 8. SPECIFICATIONS

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Specification	Detail
Model Number	6-DMF-20
Item Model Number	ICOTE071
Voltage	12V
Capacity	20AH
Battery Type	Sealed Lead Acid (SLA)
Dimensions (L x W x H)	180mm x 78mm x 170mm (7.1" x 3.1" x 6.7")
Maintenance	Maintenance-Free
Brand	ICONSPORTSS

## 9. WARRANTY AND SUPPORT

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For warranty information and customer support, please refer to the purchase documentation or contact ICONSPORTSS directly through their official website or the retailer from whom the product was purchased. Keep your proof of purchase for any warranty claims.

