

## L-faster 36V350W

# L-faster 36V 350W Front Drive Brushless Gear Hub Motor User Manual

Model: 36V350W | Brand: L-faster

## 1. INTRODUCTION

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Thank you for choosing the L-faster 36V 350W Front Drive Brushless Gear Hub Motor. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new electric bicycle hub motor. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of the product.

## 2. SAFETY INFORMATION

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Always prioritize safety when working with electrical components and bicycles. Failure to follow safety guidelines can result in injury or damage to the product.

- Ensure all power is disconnected before installation or maintenance.
- Wear appropriate safety gear, including gloves and eye protection.
- Consult a professional bicycle mechanic if you are unsure about any installation steps.
- Do not modify the motor or its components.
- Keep electrical connections dry and secure.
- Regularly inspect the motor and wiring for any signs of wear or damage.

## 3. PACKAGE CONTENTS

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The package includes the following components:

- L-faster 36V 350W Front Drive Brushless Gear Bicycle Hub Motor

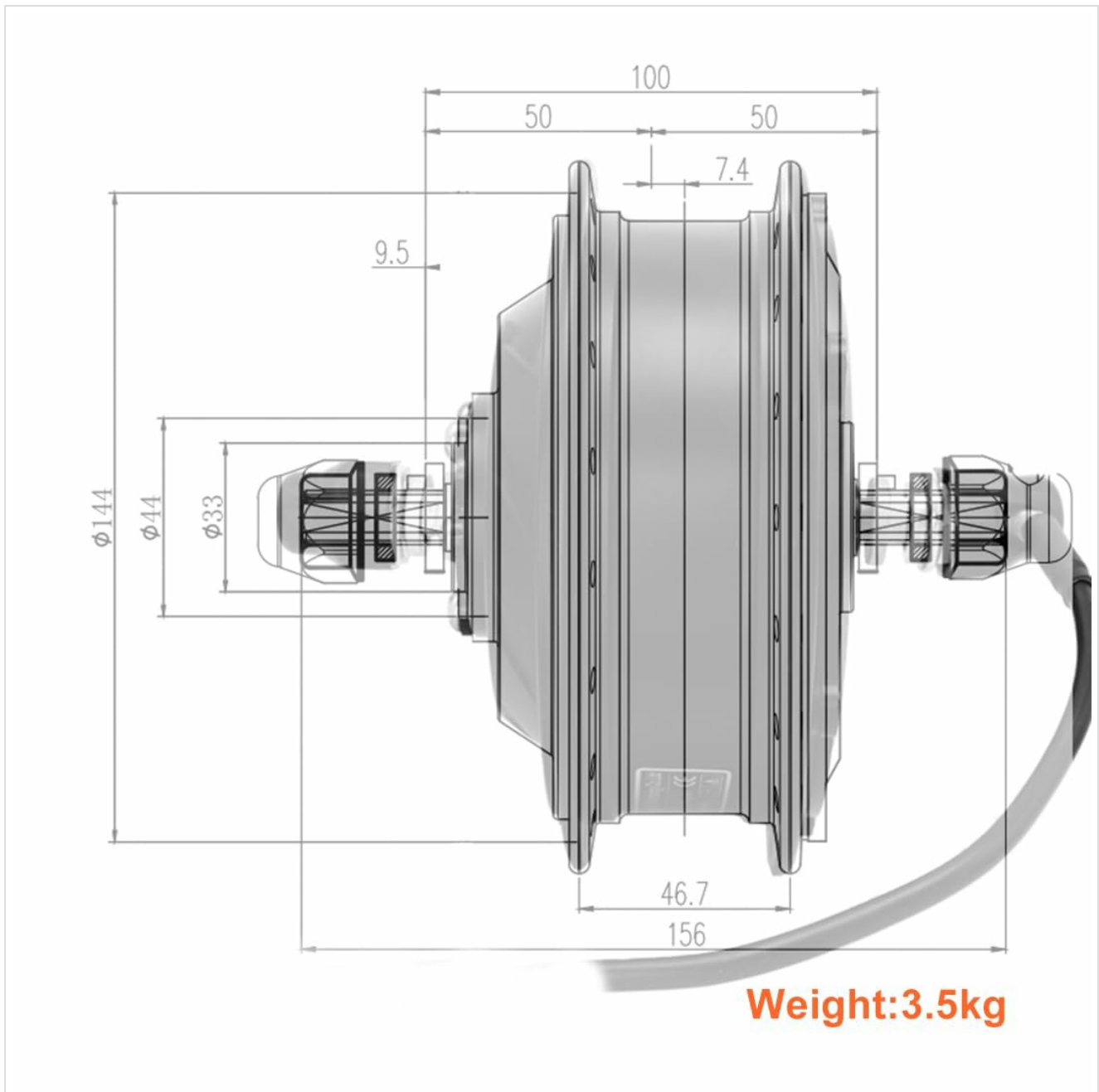
Note: Additional components such as the controller, throttle, and battery are not included and must be purchased separately.

## 4. SETUP AND INSTALLATION

This motor is designed for installation on the front wheel of a bicycle. The front fork width must be 100mm. The motor requires assembly to the wheel rim. If you are not familiar with wheel building, it is recommended to seek assistance from a local bike shop.

### 4.1 Motor Dimensions

Refer to the diagram below for detailed dimensions of the hub motor to ensure compatibility with your bicycle frame and fork.



**Figure 4.1:** Technical drawing showing the dimensions of the L-faster hub motor. Key measurements include a 100mm open size and a total weight of 3.5kg.

### 4.2 Wiring Connections

Proper wiring is crucial for the motor's function. Ensure all connections are secure and correctly matched. The motor

requires a compatible controller, throttle, and battery for operation.



**Figure 4.2:** Image illustrating the L-faster hub motor, an example of its wiring connections, and how it appears when installed on a bicycle wheel.

## 5. OPERATING INSTRUCTIONS

The L-faster hub motor is a brushless gear motor designed for efficient electric bicycle propulsion. Once installed with a compatible controller, throttle, and battery, the motor provides assistance for riding.

- **Power On:** Turn on your e-bike system using the controller's power button.
- **Throttle Control:** Use the throttle to engage the motor and control your speed.
- **Pedal Assist:** If your system includes pedal assist, the motor will provide power as you pedal.
- **Speed:** On a 26-inch bicycle, this 350W motor can achieve speeds of approximately 35 km/h.

### 5.1 Motor Operation Demonstration

Watch this video for a demonstration of the L-faster brushless hub motor in operation, showing speed readings on a

display unit.

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**Video 5.1:** Demonstration of the L-faster brushless hub motor running, displaying speed on an M6C unit. This video illustrates the motor's functionality and speed output.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and reliable performance of your hub motor.

- **Cleaning:** Keep the motor and surrounding areas clean from dirt and debris. Use a damp cloth; avoid high-pressure washing directly on the motor.
- **Connections:** Periodically check all electrical connections for tightness and corrosion. Ensure wires are not pinched or frayed.
- **Inspection:** Inspect the motor casing for any physical damage. Check the spokes and wheel for proper tension and alignment.
- **Storage:** When not in use for extended periods, store the e-bike in a dry, temperate environment.

## 7. TROUBLESHOOTING

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If you encounter issues with your L-faster hub motor, consider the following troubleshooting steps:

- **Motor Not Engaging:**
  - Check battery charge level.
  - Verify all electrical connections are secure between the motor, controller, and battery.
  - Ensure the throttle is functioning correctly.
- **Reduced Performance:**
  - Check tire pressure.
  - Inspect for any physical obstructions around the motor.
  - Ensure the battery is providing adequate power.
- **Unusual Noises:**
  - Stop riding immediately and inspect the motor for loose parts or foreign objects.
  - Check wheel bearings and spokes.

If problems persist, contact the seller or a qualified technician for further assistance.

## 8. SPECIFICATIONS

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Feature	Specification
Motor Type	Brushless Gear Hub Motor
Wattage	350W
Voltage	36V (also compatible with 48V systems)
Design	Brushless
Open Size (Front Fork Width)	100mm
Usage	Front Drive
Max Speed (on 26" bike)	Approximately 35 km/h
Material	Aluminum
Item Weight	7.72 Pounds (approx. 3.5 kg)
Manufacturer	L-faster

## 9. WARRANTY AND SUPPORT

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**Warranty:** The product is sold without an explicit warranty from the manufacturer as per available information. Please refer to the retailer's return policy for details on returns or exchanges.

**Support:** For technical assistance or inquiries regarding your L-faster hub motor, please contact the seller directly through the platform where the purchase was made. Provide your order details and a clear description of the issue for prompt support.