Hobbywing EZRUN 3665SD-2400KV-G3

HOBBYWING EZRUN 3665 SD G3 Motor User Manual

Model: EZRUN 3665SD-2400KV-G3

Product Overview

The Hobbywing EZRUN 3665 SD G3 Motor is designed for high-performance remote control vehicles, offering advanced features for durability and efficiency. It boasts an improved waterproof sensored cable interface and an upgraded sensored mode for precise motor temperature protection, perfectly matching the EzRun MAX10 G2 ESC. Its high-precision Hall sensor components ensure accurate and consistent rotor position output, leading to excellent linearity and throttle control. The motor incorporates a waterproof high-precision bearing at the front and a precision iron cover at the rear, enhancing capacity and bearing speed while minimizing resistance for smoother, more reliable operation. Compared to its predecessor, the G2 motor, it significantly reduces operating temperature under the same load, improving overall efficiency by 3% and increasing maximum output power by 5%. Constructed from carefully selected materials including a robust motor casing, durable bearings, ultra-thin silicon steel sheets, high temperature-resistant copper wire, an explosion-proof rotor, and a high-tolerance alloy shaft, this motor is built for long-term, extraordinary performance. Its modular detachable structure simplifies disassembly and daily maintenance, extending its lifespan and maintaining efficiency. Furthermore, the IP-67 waterproof system provides excellent protection against water and dust, allowing the power system to operate reliably across various challenging terrains like mud, sand, ice, snow, and water without damage.



An overhead view of the Hobbywing EZRUN 3665 SD G3 Motor, highlighting its compact cylindrical design, black and white striped casing, and the attached power and sensor cables with gold-plated connectors.



A side view of the Hobbywing EZRUN 3665 SD G3 Motor, emphasizing the sensor port and the three main power wires extending from the motor. The striped casing design is clearly visible.

What's in the Box

- (1) Ezrun 3665 Motor

Specifications

Feature	Detail
Brand	Hobbywing
Model Name	EZRUN 3665 SD G3 Motor
Item Model Number	30402604

Product Dimensions	3 x 5 x 3 inches
Item Weight	12.35 ounces
Voltage	12 Volts
Material	Metal
Manufacturer	Hobbywing Technology
First Available	October 18, 2022
Recommended Age	4 - 8 years

Setup Guide

Follow these steps to set up your HOBBYWING EZRUN 3665 SD G3 Motor:

1. **Connect to ESC:** Ensure the motor's sensored cable interface is securely connected to a compatible Electronic Speed Controller (ESC), such as the EzRun MAX10 G2 ESC, for proper temperature protection and optimal performance.
2. **Power Connections:** Connect the motor's power wires to the ESC according to the ESC's instructions. Pay attention to polarity and phase connections.
3. **Mounting:** Securely mount the motor in your vehicle chassis using appropriate screws and mounting hardware. Ensure proper gear mesh if applicable.
4. **Calibration:** Perform ESC calibration with the motor connected to ensure accurate throttle control and linearity, leveraging the high-precision Hall sensor components.

Operating Instructions

To ensure optimal performance and longevity of your HOBBYWING EZRUN 3665 SD G3 Motor, observe the following operating guidelines:

- **Environmental Conditions:** The motor features an IP-67 waterproof system, allowing operation in various conditions including mud, sand, ice, snow, and water. However, always ensure that other components of your power system (ESC, receiver, battery) are also adequately protected for such environments.
- **Temperature Monitoring:** While the motor has upgraded temperature protection, it is advisable to monitor motor temperatures during extended or demanding use to prevent overheating and ensure peak efficiency.
- **Throttle Control:** Utilize the motor's excellent linearity and throttle control for smooth acceleration and precise speed adjustments. Avoid sudden, extreme throttle inputs that could stress the system.
- **Power System Compatibility:** Ensure that your battery and ESC are compatible with the motor's voltage and current requirements to avoid damage and achieve maximum output power.

Maintenance

Proper maintenance is crucial for prolonging the lifespan and maintaining the efficiency of your HOBBYWING EZRUN 3665 SD G3 Motor:

- **Regular Cleaning:** After use, especially in wet or dusty conditions, clean the exterior of the motor to remove dirt, debris, and moisture. Use a soft brush or compressed air.

- **Bearing Inspection:** Periodically inspect the high-precision bearings for smooth operation. While the front bearing is waterproof, excessive exposure to contaminants can still affect performance over time.
- **Modular Disassembly:** The motor features a modular detachable structure. For advanced maintenance or inspection, the motor can be disassembled. Refer to official Hobbywing service guides for detailed instructions on disassembly and reassembly to avoid damage.
- **Cable and Connector Check:** Regularly inspect the sensored cable and power connectors for any signs of wear, corrosion, or damage. Ensure all connections are secure.
- **Storage:** Store the motor in a clean, dry environment away from extreme temperatures and direct sunlight when not in use.

Troubleshooting

This section provides solutions to common issues you might encounter with your HOBBYWING EZRUN 3665 SD G3 Motor:

Problem	Possible Cause / Solution
Motor not spinning or inconsistent operation	• Check all power connections between the motor, ESC, and battery. • Ensure the sensored cable is securely connected and undamaged. • Verify ESC calibration. Recalibrate if necessary. • Check for obstructions in the motor or drivetrain.
Motor overheating	• Ensure proper gearing for your application; incorrect gearing can cause excessive load. • Check for binding in the drivetrain or wheels. • Verify that the ESC is properly matched to the motor. • Ensure adequate airflow around the motor.
Loss of sensor signal or rough low-speed operation	• Inspect the sensored cable for damage or loose connections. • Ensure the sensor port on both the motor and ESC is clean and free of debris. • Verify that the ESC is operating in sensored mode.
Unusual noises from the motor	• Check for foreign objects inside the motor. • Inspect bearings for wear or damage. • Ensure the motor is securely mounted and not vibrating against the chassis.

Warranty Information

This HOBBYWING EZRUN 3665 SD G3 Motor comes with a standard manufacturer's warranty provided by Hobbywing Technology. For detailed warranty terms, conditions, and duration, please refer to the official Hobbywing website or the documentation included with your purchase. It is recommended to retain your proof of purchase for any warranty claims. Additionally, consider the available protection plans at the time of purchase for extended coverage:

- **3-Year Protection Plan:** Offers extended coverage beyond the standard manufacturer's warranty.
- **4-Year Protection Plan:** Provides even longer-term protection for your investment.
- **Complete Protect:** A comprehensive plan that may cover multiple eligible purchases.

These plans are separate from the manufacturer's warranty and are typically managed by third-party providers.

Customer Support

For further assistance, technical support, or inquiries regarding your HOBBYWING EZRUN 3665 SD G3 Motor, please contact Hobbywing customer support:

- **Manufacturer:** Hobbywing Technology
- **Official Website:** www.hobbywing.com (*Please refer to the official Hobbywing website for the most current contact information and support resources.*)
- **Online Resources:** Check the Hobbywing website for FAQs, firmware updates, and detailed product manuals.

When contacting support, please have your product model (EZRUN 3665SD-2400KV-G3) and any relevant purchase information ready.

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Question

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