

Bemonoc MY1016Z2

Bemonoc DC 12V 250W Gear Reduction Motor MY1016Z2 User Manual

INTRODUCTION

Welcome to the Bemonoc DC 12V 250W Gear Reduction Motor MY1016Z2 user manual. This document provides essential information for the safe and efficient operation of your new motor. Please read these instructions carefully before installation and use to ensure proper function and longevity of the product.

SAFETY INFORMATION

- Adhering to safety guidelines is crucial for preventing injury and damage to the motor. Please observe the following:
- Always disconnect power before performing any installation, maintenance, or troubleshooting procedures.
 - Ensure all wiring is correctly connected according to electrical standards and any provided diagrams. Incorrect wiring can lead to motor damage or electrical hazards.
 - Avoid direct contact with moving parts, such as the sprocket and chain, during motor operation.
 - Do not operate the motor in environments with excessive moisture, dust, or corrosive substances unless the motor is specifically rated for such conditions.
 - Use appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
 - This motor is specifically noted as **not compatible** with the Razor Dirt Quad.

PRODUCT OVERVIEW

The Bemonoc MY1016Z2 is a robust DC 12V 250W gear reduction motor engineered for applications requiring significant low-end torque. It comes equipped with a 9-tooth sprocket designed for use with a 410 ordinary bicycle chain, making it versatile for various custom electric vehicle projects and machinery.

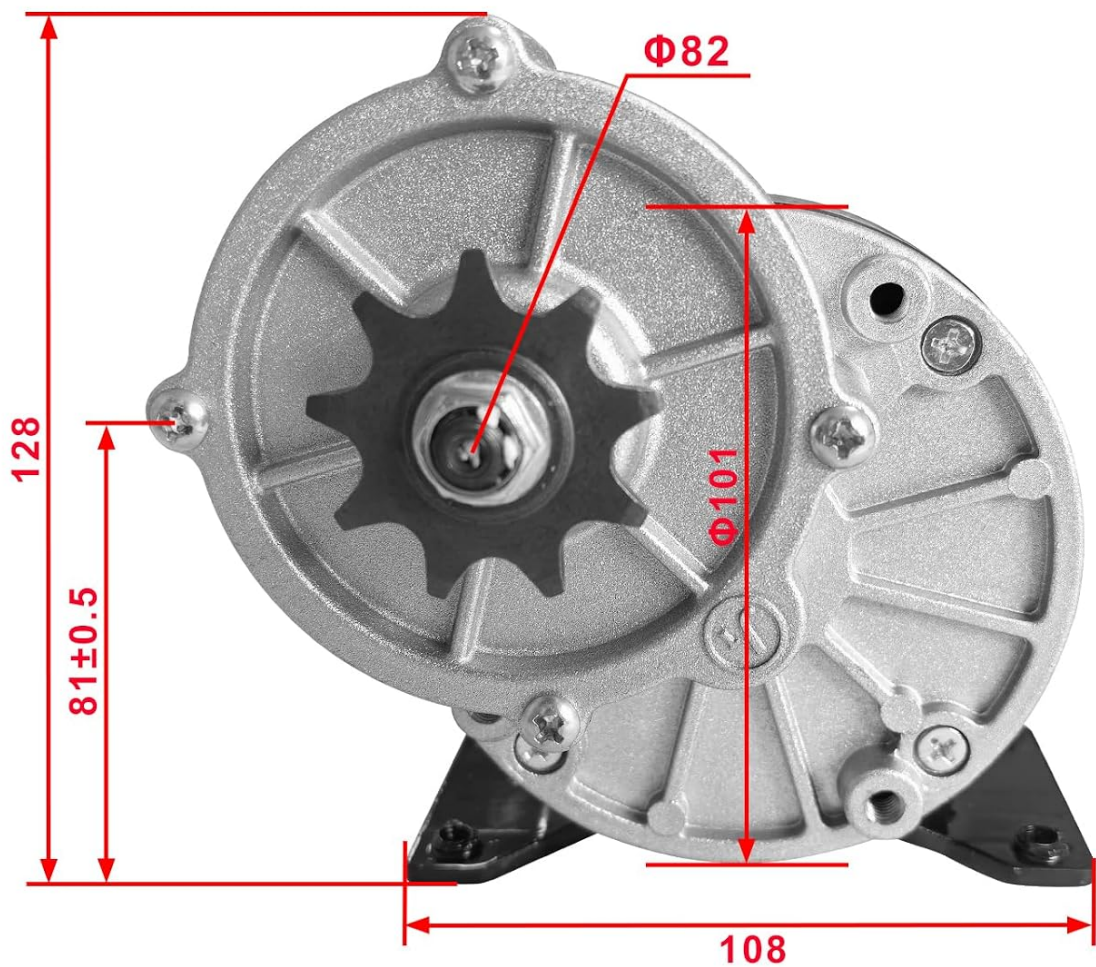
Key Features:

- **Precise Parameters:** Rated Voltage: DC12V; No-Load Speed: 3850rpm; Rated Speed: 3000rpm; Actual Gear Motor Speed: 300 rpm; Rated Current: 26.8A; Pitch: 12.7mm (1/2"); Tooth Thickness: 3mm; Inside Diameter: 11mm; Outside Diameter: 41mm; Efficiency > 78%.
- **Motor Rotation Direction:** The motor's shaft rotation direction can be easily changed by adjusting the wiring

polarity (reversing positive and negative connections).

- **Durable Construction:** Built with sturdy materials to ensure reliable operation even in demanding conditions. It includes a 410 Model Sprocket with 9 teeth. The motor is also compatible with a 410 Sprocket with 13 teeth, and 420/428 Model Sprockets.
- **Superior Components:** Features high-quality pure copper wire, premium carbon brushes, and thick wiring for quiet operation and enhanced durability, ensuring a long-lasting motor.
- **Wide Application Range:** Ideal for electric bicycles, mopeds, pocket bikes, electric dirt bikes, scooters, e-bikes, ATVs, as well as industrial applications like noodle makers, agricultural machinery, sugarcane machines, chestnut machines, roasters, and small lifts.

UNIT: MM

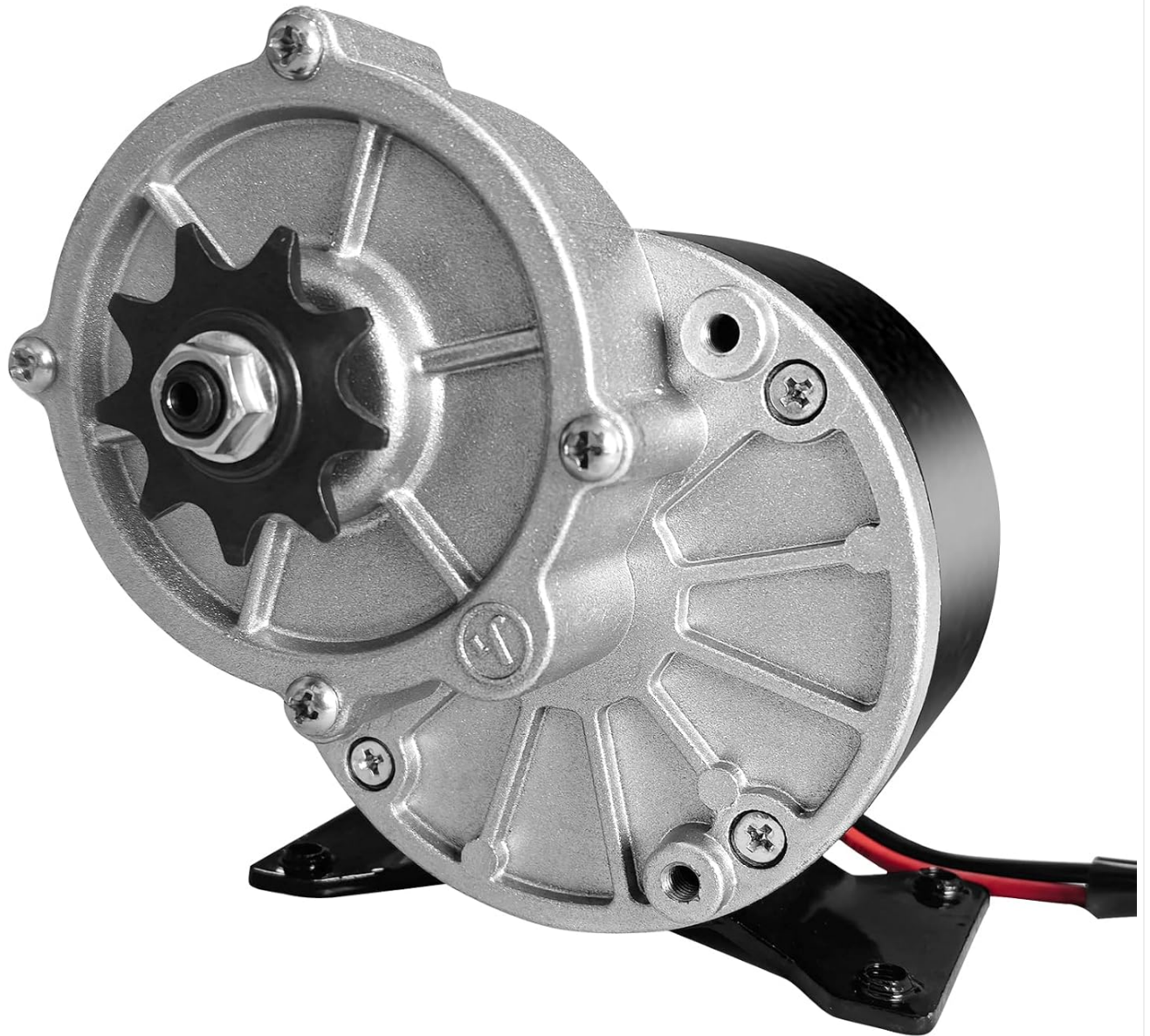


A general view of the Bemonoc DC 12V 250W Gear Reduction Motor MY1016Z2, showing its compact design and integrated sprocket.

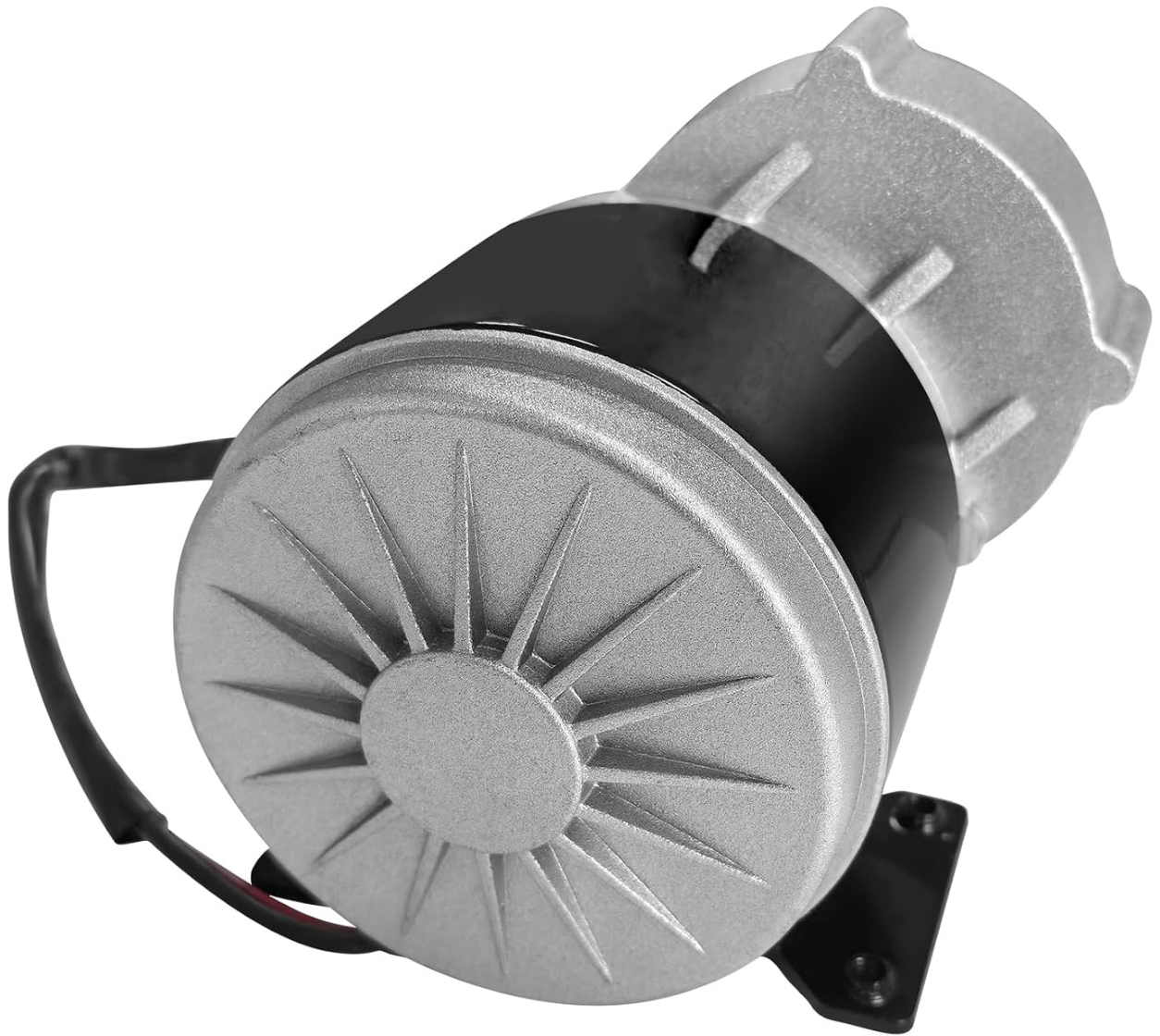
TECHNICAL SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	Bemonoc
Model	MY1016Z2-12V
Rated Voltage	DC12V
Rated Power	250W
No-Load Speed	3850rpm
Rated Speed	3000rpm
Actual Gear Motor Speed	300 rpm
Gear Ratio	9.78:1
Rated Current	26.8A
No-Load Current	2.5A
Sprocket	9 teeth sprocket 410 (for ordinary bicycle chain)
Sprocket Pitch	12.7mm (1/2")
Sprocket Tooth Thickness	3mm
Sprocket Inside Diameter	11mm
Sprocket Outside Diameter	41mm
Efficiency	>78%
Product Dimensions	4.25"W x 5"H
Item Weight	2.3 kg
Material Type	Copper, Metal



Detailed front view showing key dimensions of the Bemonoc MY1016Z2 motor in millimeters, including overall height (128mm), mounting hole spacing (81mm), and gear housing diameter (101mm).



Detailed side view showing key dimensions of the Bemonoc MY1016Z2 motor in millimeters, including overall length (102mm), mounting base width (38mm), and sprocket details (9 teeth, pitch 12.7mm).

SETUP AND INSTALLATION

Unpacking

- Carefully remove the motor from its packaging.
- Inspect the motor for any visible damage. If damage is found, contact customer support immediately.
- Verify that all included components are present. The package should contain 1PCS Scooter Motor.

Mounting

- Securely mount the motor to a stable and rigid surface using appropriate fasteners. Refer to the dimension diagrams in the Technical Specifications section for mounting hole locations and sizes.
- Ensure there is adequate ventilation around the motor to allow for proper heat dissipation and prevent overheating.

during operation.

Wiring

- Connect the motor to a DC 12V power source.
- Observe correct polarity: typically, the red wire is for positive (+) and the black wire is for negative (-). Incorrect polarity will cause the motor to rotate in the opposite direction or may prevent it from operating.
- For applications requiring variable speed control, integrate a compatible DC motor controller (not included) into the circuit.
- Ensure all electrical connections are secure, tight, and properly insulated to prevent short circuits and ensure safe operation.

OPERATING INSTRUCTIONS

Initial Start-up

- After completing the installation and wiring, apply power to the motor.
- Observe the motor's initial operation for any unusual noises, vibrations, or signs of malfunction. If any are detected, immediately disconnect power and refer to the Troubleshooting section.

Changing Rotation Direction

- The motor's rotation direction can be reversed by simply switching the polarity of the power wires. Connect the positive power supply wire to the motor's negative terminal and the negative power supply wire to the motor's positive terminal.
- Always disconnect power from the motor before attempting to change any wiring connections.

Sprocket Compatibility

- The motor is supplied with a 9-tooth sprocket designed for a 410 ordinary bicycle chain.
- If your application requires a different sprocket, you can change it to a 410 sprocket with 13 teeth, or use 420/428 model sprockets. Ensure proper alignment and tension of the chain after any sprocket change.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Bemonoc motor.

- **Regular Inspection:** Periodically inspect the motor for any loose electrical connections, signs of worn or frayed wires, or physical damage to the casing or mounting points.
- **Cleaning:** Keep the motor clean and free from accumulations of dust, dirt, and debris. Use a dry cloth or compressed air for cleaning. Avoid using liquids or solvents directly on the motor.
- **Sprocket and Chain:** Inspect the sprocket and the connected chain for any signs of wear, damage, or misalignment. If applicable to your application, lubricate the chain regularly according to its manufacturer's recommendations.
- **Carbon Brushes:** This motor utilizes durable carbon brushes. While designed for extended use, extremely long operating hours may eventually necessitate inspection or replacement of the brushes. This procedure should ideally be performed by a qualified technician.

TROUBLESHOOTING

If you encounter issues with your motor, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
Motor does not start	No power supply	Check power connections and ensure the power source is active.
Motor does not start	Incorrect wiring	Verify positive and negative connections are correctly made.
Motor runs slowly or with reduced power	Insufficient voltage/current	Ensure the power supply meets the required 12V 250W specifications.
Motor runs slowly or with reduced power	Excessive load	Reduce the mechanical load on the motor to within its rated capacity.
Unusual noise or vibration	Loose mounting	Tighten all mounting bolts and ensure the motor is securely fastened.
Unusual noise or vibration	Worn sprocket/chain	Inspect the sprocket and chain for wear or damage and replace components as necessary.
Motor overheats	Insufficient ventilation	Ensure proper airflow around the motor and clear any obstructions.
Motor overheats	Continuous heavy load	Operate the motor within its rated specifications; allow for cooling periods during prolonged heavy use.

WARRANTY INFORMATION

Bemonoc products are manufactured to high-quality standards and undergo rigorous testing. For specific warranty terms and conditions applicable to your purchase, please refer to the product packaging or contact Bemonoc customer support. It is recommended to retain your purchase receipt as proof of purchase for any warranty claims.

CUSTOMER SUPPORT

If you encounter any issues not covered in this manual, require further technical assistance, or have questions regarding your Bemonoc DC 12V 250W Gear Reduction Motor MY1016Z2, please do not hesitate to contact Bemonoc customer support.

For additional product information and to explore other Bemonoc offerings, please visit the official Bemonoc store:

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