

Qinlorgo 50TYC

Qinlorgo 50TYC DC12V 5RPM DC Motor User Manual

Model: 50TYC | Brand: Qinlorgo

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your Qinlorgo 50TYC DC Motor. Please read this manual thoroughly before installation and use, and retain it for future reference. This motor is designed for various applications requiring low power consumption, high torque, and stable, low-noise operation.

2. SAFETY INFORMATION

- Ensure the power supply matches the motor's rated voltage (DC12V).
- Disconnect power before performing any installation, maintenance, or troubleshooting.
- Avoid exposing the motor to excessive moisture or extreme temperatures beyond its operating range.
- Do not attempt to disassemble or modify the motor, as this may void the warranty and cause damage.
- Keep hands and loose clothing away from moving parts during operation.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged:

- 1 x Qinlorgo 50TYC DC Motor

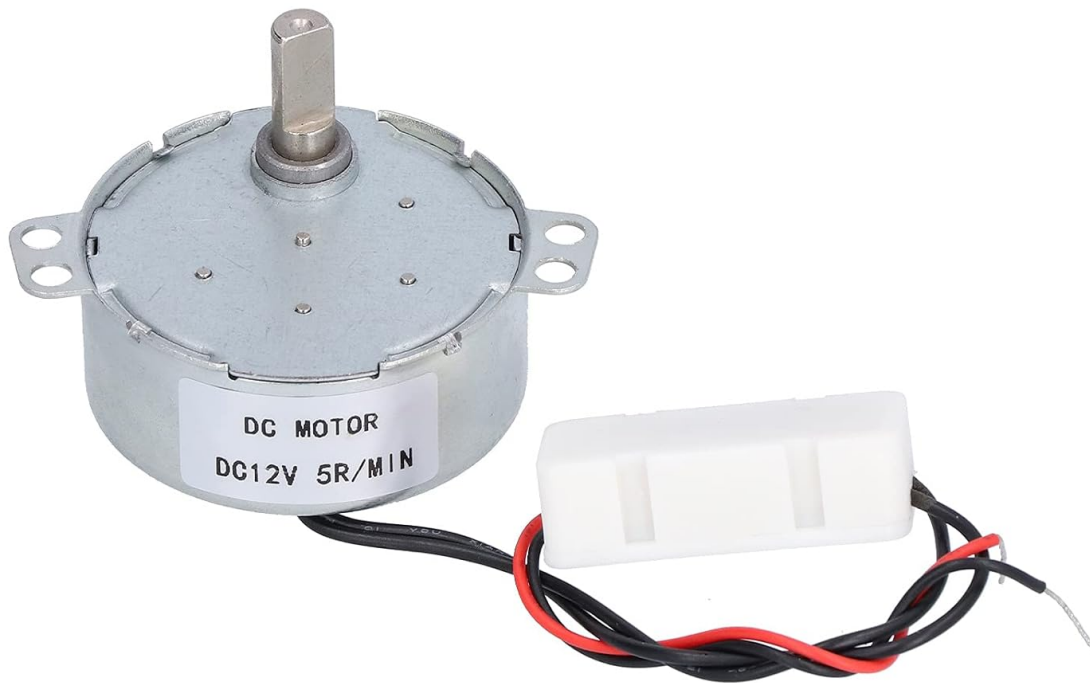


Figure 3.1: The Qinlorgo 50TYC DC Motor, showing its compact design and integrated wiring for power connection.

4. SPECIFICATIONS

Parameter	Value
Model	50TYC
Rated Voltage	DC12V
Speed	5 RPM
Power	4W
Direction	CCW/CW (Clockwise/Counter-Clockwise)
Shaft Type	Single Flat Shaft
Material	Metal, Rubber, Plastic
Item Model Number	Qinlorgosh9xucd21i1900

Parameter	Value
Item Weight	0.09 Kilograms (approx. 3.21 ounces)
Package Dimensions	3.62 x 2.76 x 2.17 inches



Figure 4.1: Various views of the motor, highlighting its compact structure and flat shaft design.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your DC motor:

- Mounting:** Securely mount the motor using the integrated mounting holes. Ensure the motor is stable and free from excessive vibration.
- Power Connection:** Connect the motor to a DC12V power source. The motor supports both Clockwise (CW) and Counter-Clockwise (CCW) rotation. The direction of rotation is determined by the polarity of the DC voltage applied to the motor's terminals. Reversing the polarity will reverse the direction of rotation.
- Shaft Connection:** Attach the desired component (e.g., gear, fan blade) to the single flat shaft. Ensure a secure fit to prevent slippage during operation.

4. **Testing:** Before full deployment, perform a brief test run to confirm correct operation and rotation direction.



CCW/CW direction, wide
application range
Single flat shaft design,
easy to operate

Figure 5.1: The motor's single flat shaft design, which allows for easy attachment of various components and supports bidirectional rotation (CCW/CW).

6. OPERATION

The Qinlorgo 50TYC DC Motor is designed for continuous, stable operation with minimal noise. Once properly installed and connected to a DC12V power source, the motor will begin to rotate at its rated speed of 5 RPM. Its low power consumption (4W) and high torque make it suitable for applications requiring energy efficiency and reliable movement.



Low power consumption,
high torsion
5RPM speed, stable
operation and
low noise



Figure 6.1: The motor's key operational characteristics: low power consumption, high torque, 5 RPM speed, stable performance, and quiet operation.

Typical Applications:

- Household appliances (e.g., heaters, electric fans, air conditioners)
- Massagers
- Dynamic display stands
- Handicraft lighting
- Popcorn machines
- Christmas tree rotating bases

Used for transmission equipment
Heater, electric fan, Christmas tree, air conditioner
Massager, dynamic display stand, popcorn machine,
etc.

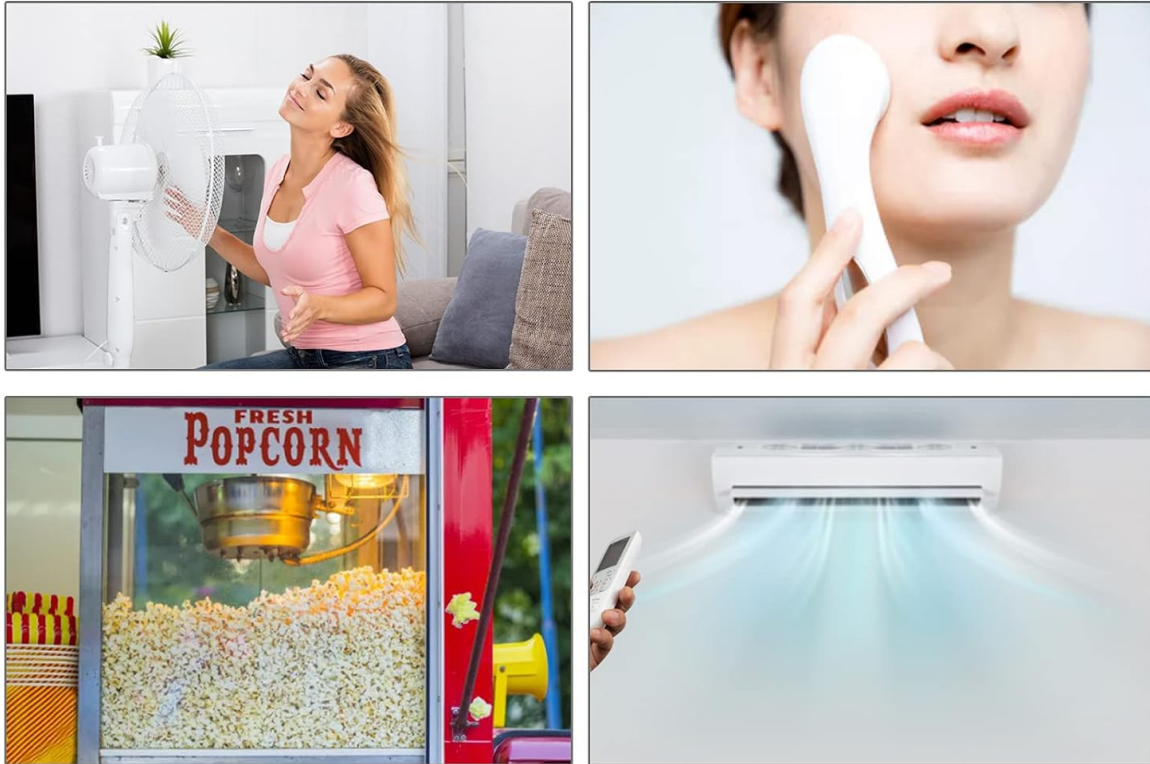


Figure 6.2: Examples of common applications for the 50TYC DC Motor, showcasing its adaptability in various electronic products.

7. MAINTENANCE

The Qinlorgo 50TYC DC Motor is designed for durability and requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the motor clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Periodically check all connections to ensure they are secure.
- Avoid applying excessive force or stress to the motor shaft.
- Store the motor in a dry environment when not in use.

8. TROUBLESHOOTING

If you encounter issues with your motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Motor does not start	No power supply; incorrect voltage; loose connections.	Check power source (DC12V); verify all connections are secure.
Motor runs intermittently	Loose wiring; unstable power supply.	Inspect wiring for damage or looseness; ensure stable DC12V power.
Unusual noise or vibration	Improper mounting; obstruction of moving parts; damaged motor.	Re-secure mounting; check for obstructions; if noise persists, motor may be damaged.
Incorrect rotation direction	Incorrect power polarity.	Reverse the polarity of the DC power connection.

If the problem persists after attempting these solutions, please contact customer support.

9. WARRANTY AND SUPPORT

For any questions, technical assistance, or warranty inquiries regarding your Qinlorgo 50TYC DC Motor, please contact your retailer or the manufacturer directly. Please have your model number (50TYC) and item model number (Qinlorgosh9xucd21i1900) available when contacting support.