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> zemismart Tuya Zigbee Rechargeable Roller Blind Motor (Model ZM25EL) User Manual

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For 38mm Tube Systems

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your zemismart Tuya Zigbee Rechargeable Roller Blind Motor (Model ZM25EL). This motor is designed to automate roller blinds with 38mm tubes, offering smart control via the Tuya Smart Life app, remote control, and voice assistants. Please read this manual carefully before installation and use to ensure proper function and safety.

2. PRODUCT FEATURES

- **Integrated Tuya Zigbee Receiver:** Converts normal blinds into smart, controllable devices.
- **Compatibility:** Designed for 38mm (1-1/2 inch) roller blind tubes.
- **Rechargeable Battery:** Features a built-in 3000mAh lithium battery for cordless operation.
- **Multiple Control Options:** Supports Tuya Smart / Smart Life app control, RF433 remote control, and voice control via Alexa, Google Home, and Siri.
- **USB Charging:** Convenient charging via a standard USB cable.
- **Optional Solar Panel:** Can be charged directly using an optional solar panel (sold separately).
- **Timer Functionality:** Set schedules for automatic opening and closing of blinds.

3. SETUP AND INSTALLATION

3.1 Package Contents

Before beginning, ensure all components are present:

- zemismart Tuya Zigbee Roller Blind Motor (ZM25EL)
- Crown and Drive Set
- Installation Brackets

- RF433 Remote Control
- USB Charging Cable
- User Manual (this document)

3.2 Motor Components Overview

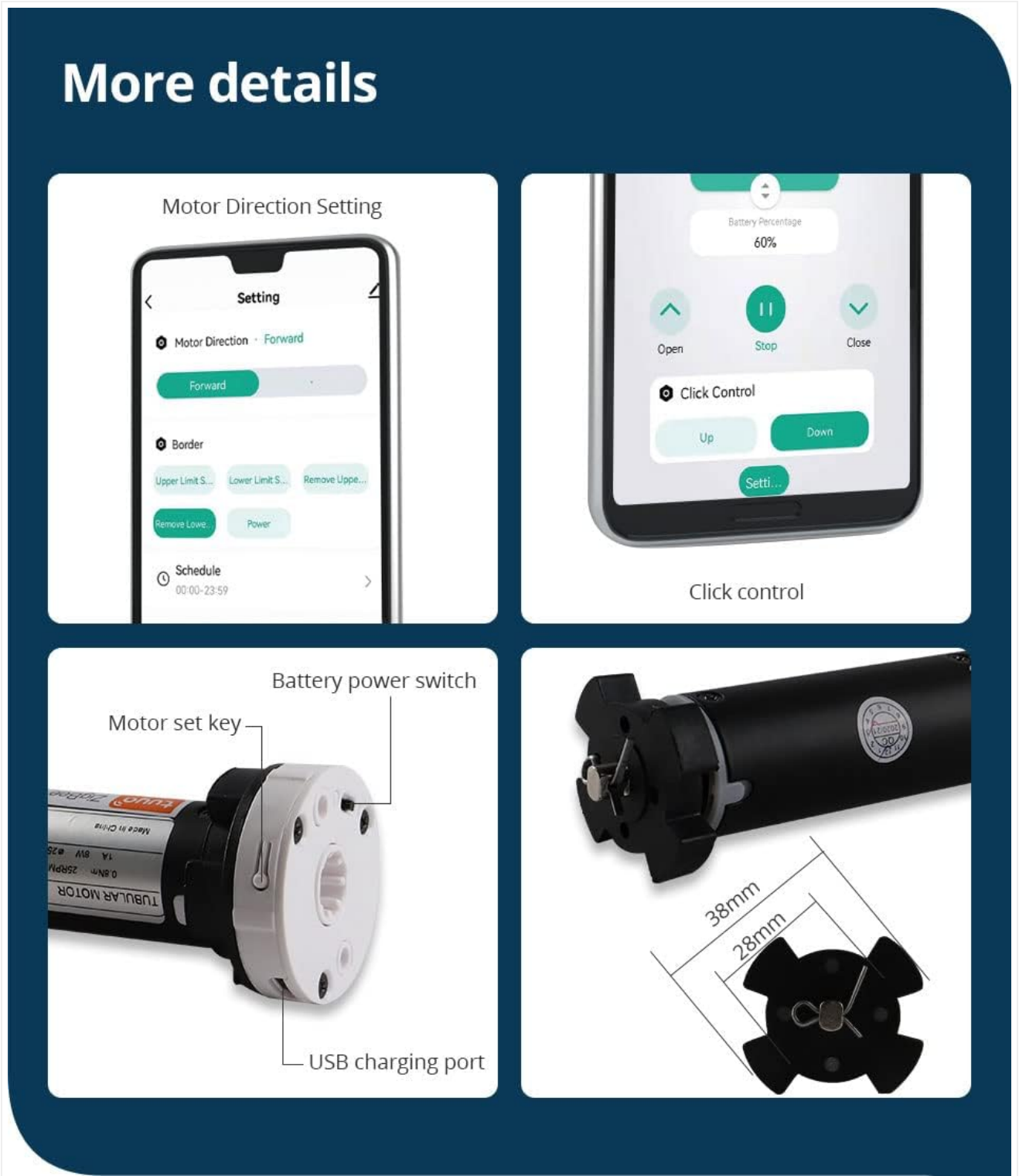


Image: Detailed view of the motor components, highlighting the motor set key, battery power switch, and USB charging port.

3.3 Physical Installation

1. **Prepare the Roller Blind Tube:** Ensure your roller blind tube has an inner diameter of 38mm. The motor is designed to fit snugly inside.
2. **Attach Crown and Drive Set:** Slide the crown and drive set onto the motor shaft. These components ensure the

motor properly engages with the blind tube.

- 3. Insert Motor into Tube:** Carefully insert the motor assembly into the roller blind tube. Ensure it is fully seated and secure.
- 4. Mount the Blind:** Install the roller blind assembly, including the motor, into your window frame using the provided mounting brackets. This motor supports interior mounting. The maximum recommended blind width for installation is 3 meters, and the maximum weight is 4kg.



Image: Illustration of the motor's dimensions and its fit within a 38mm tube, alongside mounting accessories.

3.4 Initial Charging

Before first use, fully charge the motor's built-in 3000mAh lithium battery. Connect the provided USB charging cable to the motor's USB charging port and to a standard USB power adapter (not included). A full charge typically takes several hours.

Battery Show

Show battery level in the app, so that can check the battery all time with 3000mAh battery, working for longer time



Image: The motor's battery level can be monitored via the app. The motor features a USB charging port for convenience.

An optional solar panel can be connected for continuous charging, reducing the need for manual USB charging.

4. OPERATING INSTRUCTIONS

4.1 Tuya Zigbee Hub Requirement

This motor requires a Tuya Zigbee Gateway (hub) to function with the Tuya Smart / Smart Life app and for voice control integration. Ensure your Zigbee hub is set up and connected to your home network.



Image: A visual reminder that a Tuya Zigbee Hub is essential for smart functionality.

4.2 App Control (Tuya Smart / Smart Life)

1. **Download App:** Download the 'Tuya Smart' or 'Smart Life' app from your smartphone's app store.
2. **Add Device:** Open the app, log in, and follow the instructions to add a new device. Select 'Curtain Motor' or similar, and ensure your Zigbee hub is detected.
3. **Pairing:** Follow the app's instructions to put the motor into pairing mode (usually by pressing a button on the motor or remote).
4. **Basic Operation:** Once paired, you can use the app to open, close, or stop the blinds at any position.
5. **Setting Limits:** Use the app's settings to define the upper and lower limits for your blinds. This ensures the motor stops precisely at the desired open and closed positions.
6. **Scheduling:** Create schedules within the app to automate the opening and closing of your blinds at specific times.

App control

You can use APP to control the on/off of curtains



Image: The Tuya Smart Life app interface demonstrating control over the roller blind, including open, stop, and close functions.



Image: Example of setting schedules in the app for automatic blind operation at specific times, such as 7:00 AM and 4:00 PM.

4.3 RF433 Remote Control

The included RF433 remote control provides direct and convenient operation of your blinds.

- **Pairing Remote:** Refer to the motor's specific pairing instructions (usually a combination of button presses on the motor and remote) to link the remote control.
- **Buttons:** The remote typically features 'Up', 'Down', and 'Stop' buttons for basic control.
- **Multi-Channel Control:** Some remotes support multiple channels, allowing control of several motors individually or in groups. One remote can control up to 50 motors.

RF control

Simple and convenient direct control of curtains

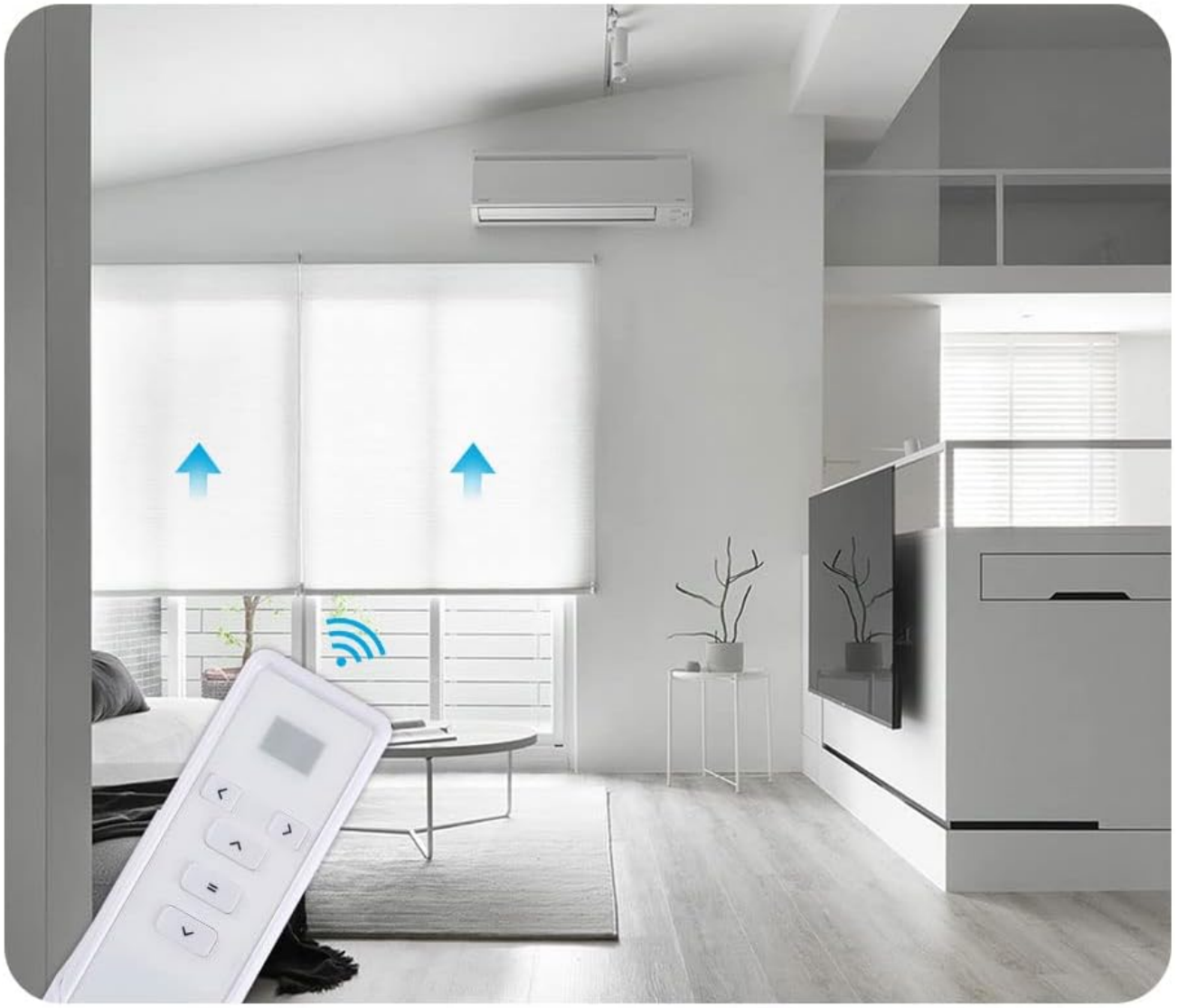


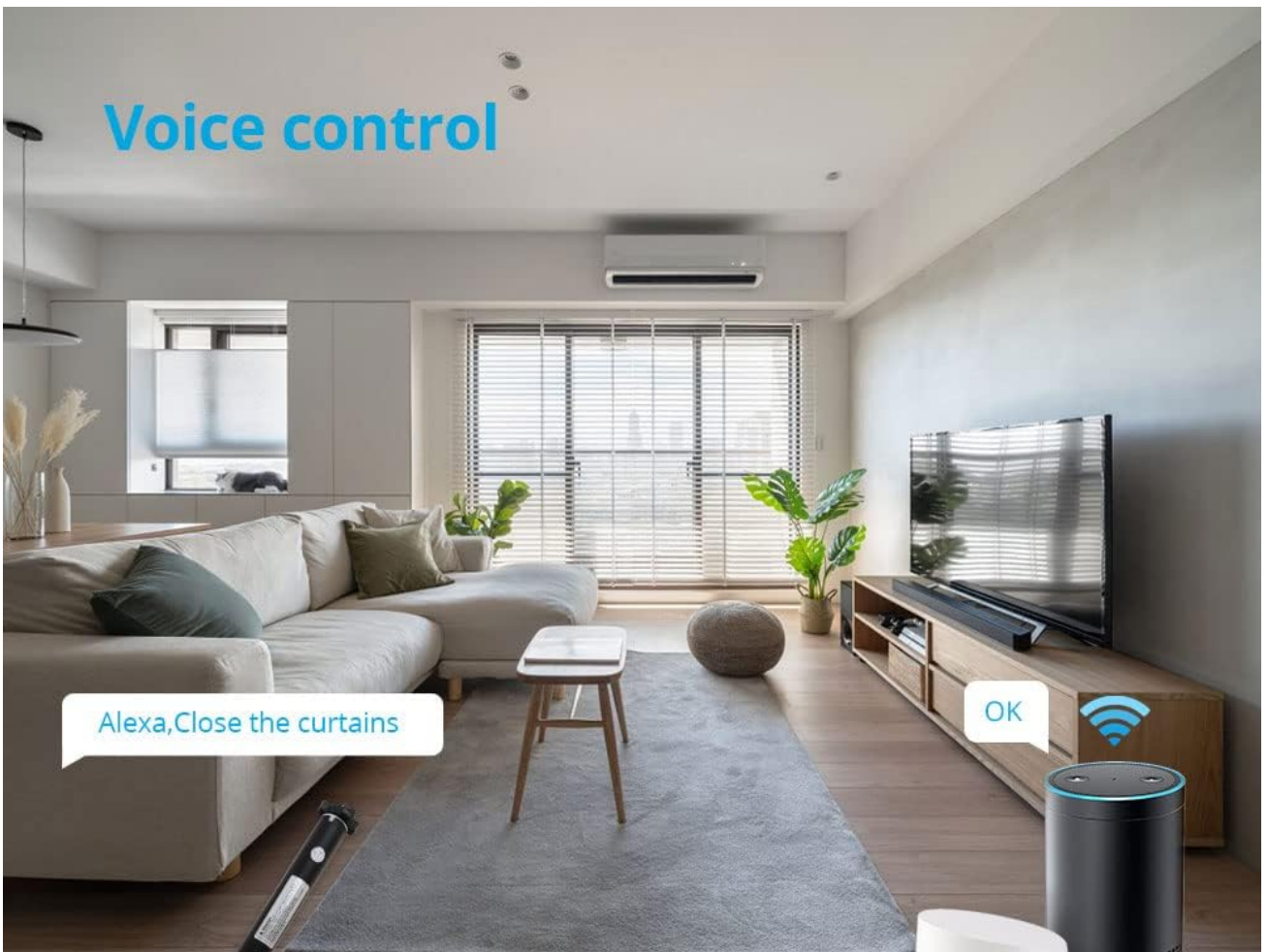
Image: A user operating roller blinds with the RF remote control, showing simple and direct control.

4.4 Voice Control (Alexa, Google Home, Siri)

Once the motor is integrated with your Tuya Zigbee hub and linked to your smart home platform (Alexa, Google Home, or Apple HomeKit via Siri), you can use voice commands.

- **Linking Accounts:** In the Alexa, Google Home, or Apple Home app, link your Tuya Smart / Smart Life account.
- **Discover Devices:** Ask your voice assistant to discover new devices.
- **Voice Commands:** Use commands such as:
 - "Alexa, open the blinds."
 - "Hey Google, close the living room blinds."
 - "Hey Siri, set the bedroom blinds to 50%."

Voice control



Alexa, Close the curtains

OK



(*The hub/router/smart speaker is not included in the pack)

Image: Diagram illustrating the connectivity for voice control, showing the motor, Zigbee hub, router, and smart speakers (Amazon Echo, Google Home).



Image: An integrated smart home environment where blinds are controlled via voice assistants and a smartphone app.

5. MAINTENANCE

5.1 Battery Charging

Regularly check the battery level via the Tuya Smart / Smart Life app. Recharge the motor using the USB cable when the battery is low. If using an optional solar panel, ensure it is clean and positioned to receive adequate sunlight for optimal charging.

5.2 Cleaning

The motor itself requires minimal cleaning. If necessary, use a soft, dry cloth to wipe the exterior. For the roller blind fabric, follow the manufacturer's instructions, typically involving spot cleaning.

6. TROUBLESHOOTING

- **Motor Not Responding:**

- Check battery level and recharge if necessary.
- Ensure the RF remote control has working batteries.
- Verify the motor is properly paired with the remote and the Zigbee hub.

- **App Connectivity Issues:**

- Ensure your Tuya Zigbee hub is powered on and connected to your home Wi-Fi network.
- Check your internet connection.
- Restart the Tuya Smart / Smart Life app.
- If issues persist, try re-pairing the motor with the Zigbee hub.

- **Voice Control Not Working:**

- Confirm that your Tuya Smart / Smart Life account is correctly linked to Alexa, Google Home, or Apple Home.
- Ensure your voice assistant device is online and functioning.
- Try re-discovering devices through your voice assistant app.

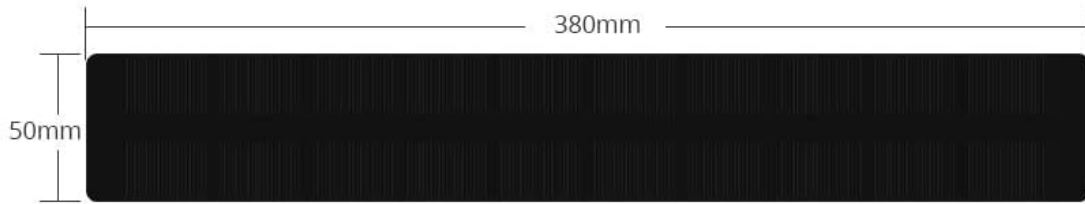
- **Limits Not Set Correctly:**

- Access the motor settings in the Tuya Smart / Smart Life app and re-calibrate the upper and lower limits.

7. SPECIFICATIONS

Feature	Specification
Model Number	ZM25EL
Brand	zemismart
Material	Aluminum
Input Voltage	DC7.4V
Rated Power	8W
Max Current	1A
Battery Capacity	3000mAh
Torque	0.8Nm
Rated RPM	25PRM
Running Noise	35-40dB
Tube Compatibility	38mm (1-1/2 inch)
Max Supported Blind Width	3 meters
Max Supported Blind Weight	4 kg
Mounting Type	Interior Mount
Recommended Use	Doors, Windows

Product parameters



Solar panel (optional)



Product model:ZM25EL	Input voltage:DC7.4V	Rated Power:8W	Max current:1A
Batthey capacity:3000mAh	Torque:0.8Nm	Rated RPM:25PRM	Running noise:35-40dB

Image: Detailed product parameters including physical dimensions and technical specifications of the motor and accessories.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the zemismart official website or contact your retailer. Keep your purchase receipt as proof of purchase for any warranty claims.