Sortfle AM25D-1/25-ES-E

Sortfle AM25 Roller Blinds Motor User Manual

Model: AM25D-1/25-ES-E

1. Introduction

The Sortfle AM25 Roller Blinds Motor is designed to convert existing indoor roller shades into motorized, remote-controlled, and smart home-compatible window treatments. This motor is rechargeable and can be optionally charged via solar panels.

Compatibility: This motor is compatible with shade tubes that have an outer diameter (OD) of 1.5 inches (38 mm). It is suitable for roller shades, Roman shades, and other indoor window coverings that utilize a compatible tube.

Key Features:

- Wireless operation with included single-channel remote.
- Smart home integration with Alexa and Google Assistant (requires separate Wi-Fi to 433 Hub, model AC520-02).
- Rechargeable battery with long operational life.
- Optional solar panel charging capability.

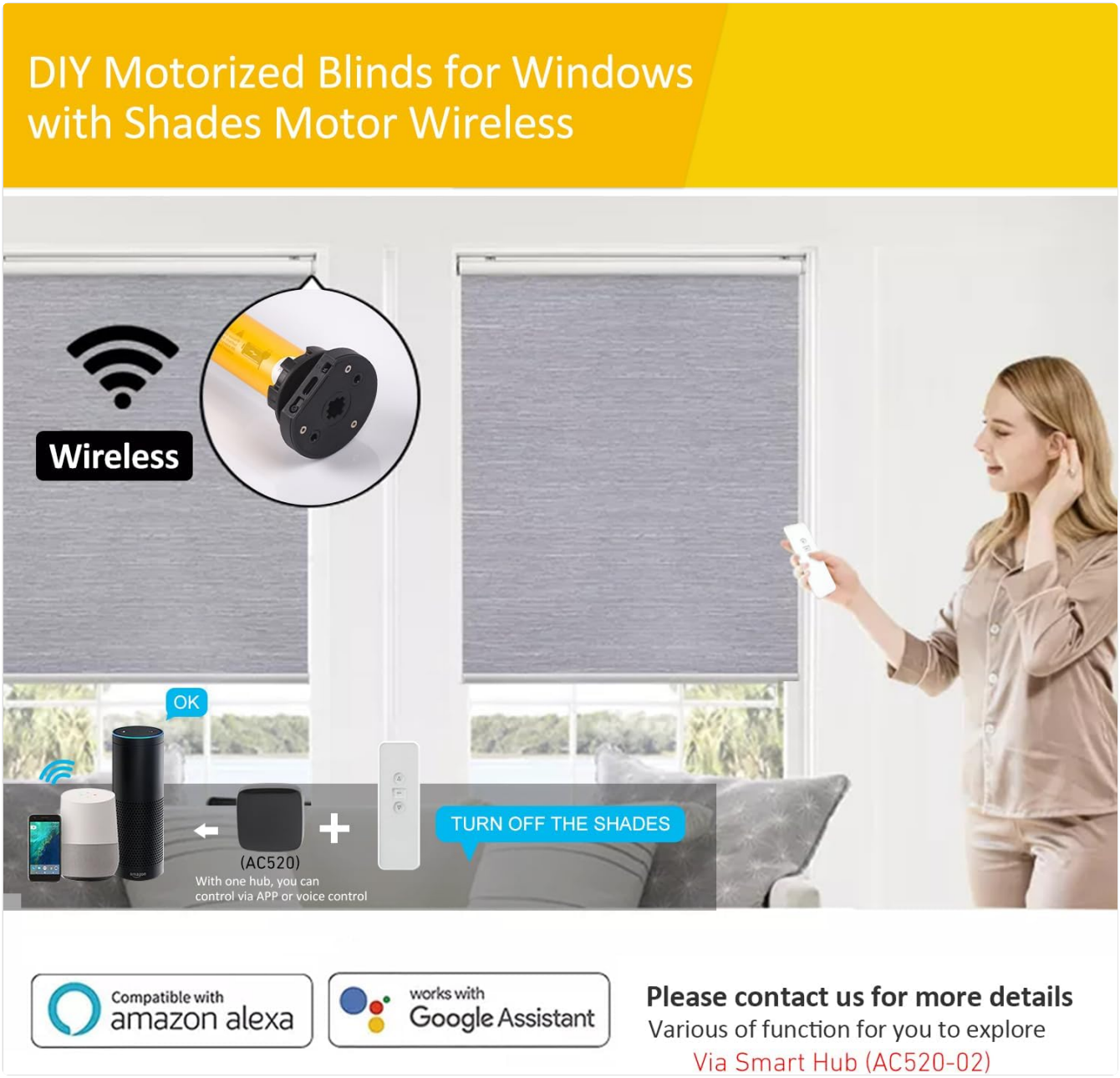


Image 1.1: Overview of the Sortfle AM25 Roller Blinds Motor system, highlighting wireless control and smart home compatibility.

2. Package Contents

Please verify that all items are present in your package:

- 1 x Sortfle AM25 Roller Blinds Motor
- 1 x Single-channel Remote Control
- 1 x USB-C Charging Cable (5V)

3. Specifications

Model Number	AM25D-1/25-ES-E
Motor Torque	1 Nm
Load Capacity	Approximately 10 lbs (4.5 kg) of shade material (excluding tube weight)

Compatible Tube OD	1.5 inches (38 mm)
Battery Type	Lithium Ion (included)
Battery Life (per charge)	4-6 months of typical use (approx. 600 cycles)
Charging Interface	USB-C, 5V
Charging Time	Approximately 6 hours for a full charge
Noise Level	35 dB
Motor Length	17.3 inches (44 cm)



Image 3.1: Detailed dimensions and main functions of the Sortfle AM25 motor.

4. Safety Information

- Ensure the motor is installed correctly and securely within the shade tube and brackets to prevent accidental detachment.
- Keep children and pets away from moving blinds.

- Do not attempt to open or repair the motor unit yourself. Refer to qualified personnel for service.
- Use only the provided USB-C charging cable or a compatible 5V USB charger.
- Avoid exposing the motor to extreme temperatures, moisture, or direct sunlight for prolonged periods.

5. Setup and Installation

5.1 Tube Compatibility Check

Before installation, confirm that your existing shade tube has an outer diameter (OD) of 1.5 inches (38 mm). The motor is designed to fit snugly into this size tube. An incorrect tube size may lead to installation difficulties or improper operation.



Image 5.1: Guide for checking shade tube and bracket compatibility.

5.2 Motor Installation into Shade Tube

1. Carefully insert the motor into one end of your 1.5-inch (38 mm) shade tube. Ensure the motor head is fully

seated.

2. If the fit is tight, gently rotate the motor while inserting. Avoid forcing the motor, as this may damage the unit or the tube.
3. Once the motor is in place, attach the end cap/bracket adapter to the other end of the shade tube, ensuring it aligns with your existing shade brackets.

5.3 Shade Mounting

Mount the assembled shade with the motor into your window frame using your existing or compatible brackets. Ensure the shade is level and securely fastened.

6. Operating Instructions

6.1 Basic Remote Control Operation

The included single-channel remote control allows for basic operation of your motorized shade:

- **Up Button (▲):** Press to raise the shade.
- **Down Button (▼):** Press to lower the shade.
- **Stop/Pause Button (■):** Press to stop the shade at any desired position.

6.2 Setting Upper and Lower Limits

The motor supports custom upper and lower limits to define the shade's full open and closed positions. Refer to the detailed programming instructions provided with the remote control for specific steps on how to set, adjust, or clear these limits.

7. Remote Control Pairing

The motor comes with a built-in 433.92 MHz receiver. The included single-channel remote is typically pre-paired. If re-pairing is necessary or if you wish to pair additional remotes (e.g., a multi-channel remote AC123-16, sold separately), follow the instructions below:

1. **Enter Pairing Mode:** Locate the small programming button on the motor head (or refer to the motor's specific instructions for entering pairing mode). Press and hold this button until the motor jogs slightly.
2. **Pair Remote:** On the remote control, press the 'P' button (or designated pairing button) twice, then press the 'Up' button once. The motor should jog again, indicating successful pairing.
3. **Test Operation:** Use the remote to test the shade's movement.

For multi-channel remotes, consult the remote's specific manual for assigning channels to individual motors.



Image 7.1: Motor with charging port and various remote control options.

8. Smart Home Integration

To enable voice control with Amazon Alexa or Google Assistant, a separate Wi-Fi to 433 Hub (model AC520-02) is required. This hub acts as a bridge between your Wi-Fi network and the motor's 433.92 MHz receiver.

1. **Install the Hub:** Follow the instructions provided with the AC520-02 Hub to set it up and connect it to your home Wi-Fi network.
2. **Link Devices:** Use the hub's companion app to discover and link your AM25 motor.
3. **Connect to Voice Assistant:** Enable the appropriate skill or service for your hub within the Alexa or Google Home app.
4. **Voice Commands:** Once linked, you can use voice commands such as "Alexa, open the living room blinds" or "Hey Google, close the kitchen shade."

9. Charging and Power

The AM25 motor is equipped with a rechargeable Lithium Ion battery. A full charge provides approximately 4-6 months of typical use (around 600 operational cycles).

9.1 Charging the Motor

- Locate the USB-C charging port on the motor head.
- Connect the provided USB-C charging cable to the motor and plug the other end into a 5V USB power adapter (not included) or a powered USB port.
- A full charge takes approximately 6 hours. The indicator light on the motor will change to show charging status (refer to motor's specific LED indicator guide).

9.2 Low Battery Indication

When the battery is low, the motor's red LED will flash 10 times daily, indicating that charging is required.

9.3 Optional Solar Panel Charging

The motor can be connected to an optional solar panel (sold separately) for continuous charging, eliminating the need for manual recharging. Connect the solar panel's USB 2.0 port to the motor's USB-C charging port using an appropriate adapter if necessary.



Image 9.1: Details on motor power, battery life, and optional solar charging.

10. Maintenance

- **Cleaning:** Wipe the motor and exposed parts with a dry, soft cloth. Do not use abrasive cleaners or immerse the motor in water.
- **Battery Care:** For optimal battery longevity, avoid completely draining the battery frequently. Recharge when the low battery indicator appears. If storing the motor for an extended period, charge it to approximately 50% and recharge every few months.

11. Troubleshooting

Problem	Possible Cause	Solution
Motor does not respond to remote.	Low battery, remote not paired, remote battery dead, obstruction.	Charge the motor. Re-pair the remote (Section 7). Replace remote battery. Check for obstructions in shade path.
Shade does not move smoothly or gets stuck.	Incorrectly set limits, obstruction, motor not properly seated in tube, shade material issues.	Reset and re-set upper/lower limits (Section 6.2). Check for physical obstructions. Ensure motor is fully inserted into the tube. Inspect shade material for damage.
Motor makes unusual noise.	Motor not properly seated, internal issue.	Verify motor is securely seated in the tube. If noise persists, discontinue use and contact support.
Motor does not charge.	Faulty cable, power adapter, or charging port.	Try a different USB-C cable and 5V power adapter. Ensure the charging cable is fully inserted into the motor's port.

12. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or contact Sortfle customer service through the retailer where the product was purchased. Please have your model number (AM25D-1/25-ES-E) and purchase date available when contacting support.