Blütezeit ME-MS650

Blütezeit MS650 Solar Swing Gate Opener Instruction Manual

Model: ME-MS650 | Brand: Blütezeit

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Blütezeit MS650 Solar Swing Gate Opener. This dual-arm system is designed for swing gates up to 1760 lbs and 18 ft in length, featuring an integrated 24V lithium battery and a 25W solar panel for efficient, off-grid operation. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: Blütezeit MS650 Solar Swing Gate Opener system overview.

2. Safety Information

Always prioritize safety during installation and operation. Failure to follow these instructions may result in serious injury or property damage.

- Ensure all power sources are disconnected before performing any installation or maintenance.
- Keep hands, feet, and clothing clear of the gate and operator arms during operation.
- Do not allow children to play near the gate or operate the controls.
- Install safety devices such as photocells to prevent the gate from closing on obstructions.
- Regularly inspect the gate and operator for signs of wear, damage, or misalignment.
- In case of power failure or malfunction, use the manual release key to operate the gate.

3. Package Contents

Verify that all components are present before beginning installation:

- 1 × Dual-Arm Swing Gate Operator
- 1 × 25W Solar Panel
- 1 × Control Box with Built-in Lithium Battery
- 2 × Remote Controls
- 2 × Manual Clutch Key
- 1 × Hex Wrench
- 2 × Front Bracket
- 2 × Rear Bracket
- 1 × Installation Kits (fasteners, etc.)
- 1 × User Manual (this document)

4. Product Features

- **Innovative Lithium Battery Integration:** The MS650 features a 24V 6.0Ah lithium-ion battery integrated directly into the control box, simplifying installation by combining power storage and control into a single unit. This eliminates the need for separate battery boxes and external wiring.



Figure 2: Integrated Lithium Battery within the control box.

- **Eco-Friendly Solar Power & AC Compatibility:** The high-efficiency 25W solar panel provides reliable, off-grid power, eliminating the need for external electricity. The system is also AC110V/60Hz compatible for conventional power setups.

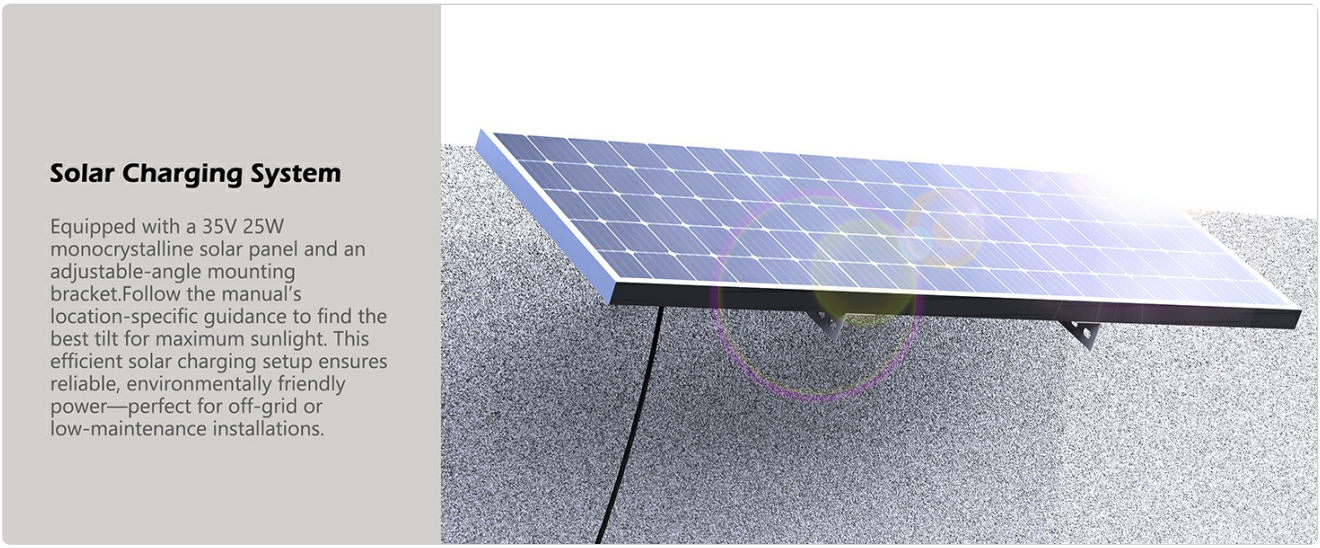


Figure 3: Solar Charging System for continuous operation.

- **Robust Dual-Arm Design:** Designed to handle gates up to 1760 lbs and 18 ft in length, ensuring smooth, reliable operation. Each arm supports up to 880 lbs.

Heavy-Duty Build

Built with a reinforced structure and powerful 200W motors, this dual-arm system supports gates up to 1760 lbs or 36 feet long (880 lbs or 18 ft per arm). Engineered for strength and stability, it delivers smooth and reliable movement while keeping noise below 56 dB — ideal for quiet residential environments and long-term performance.

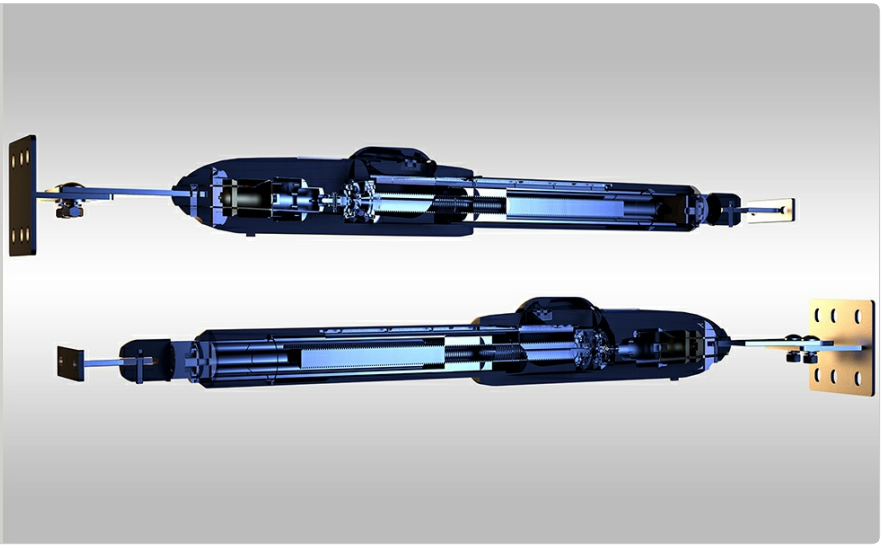


Figure 4: Heavy-Duty Motor and Precision Structure.

- **Effortless Manual Operation with Integrated Clutch System:** A built-in clutch system allows for manual gate operation. Simply insert the key to unlock the clutch and open the gate without removing the arms.

Manual Release Access

The Blütezeit MS650 features a secure clutch system on the operator arm that can be unlocked with a key for manual operation in special situations. This ensures easy gate access during power outages or emergencies. The clutch is protected with dual-layer sealing for reliable dust and water resistance.



Figure 5: Manual Release Access with integrated clutch.

- **Fast & Simple Installation with Smart Auto-Setting Technology:** Auto-setting PCB technology automatically adjusts the gate's angle and travel limits. Installation is simplified with a step-by-step manual.

Clear Installation Guide

The Blütezeit MS650 Swing Gate Operator comes with a comprehensive, easy-to-follow illustrated manual. It includes precise installation dimensions and detailed explanations of each function, ensuring a smooth and accurate setup process. Whether you're a professional or DIY user, the guide makes installation straightforward and stress-free.

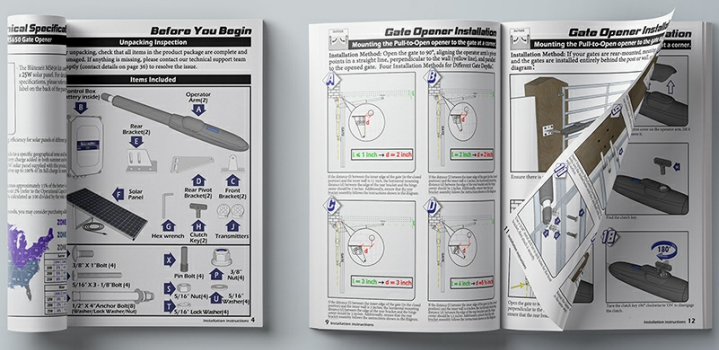


Figure 6: Clear Installation Guide for easy setup.

- **Weatherproof IP54 Design:** The operator features an IP54-rated enclosure, providing resistance to dust and water splashes, suitable for outdoor use in various climates.



Figure 7: Outdoor Ready design for all-season performance.

- **Auto-Close Function:** Adjustable auto-close function (0–99 seconds) for secure and convenient gate control.
- **Adjustable Opening Angle & Speed:** Program the control box to set the opening angle and travel speed to match specific site requirements.
- **Pedestrian Mode Access:** Allows partial opening of one gate leaf for quick and secure walk-through access.
- **Inward & Outward Compatible:** Supports both 'pull to open' and 'push to open' settings for flexible installation.
- **Effortless Remote Access:** Includes dual remotes with a 100ft range for convenient gate operation.

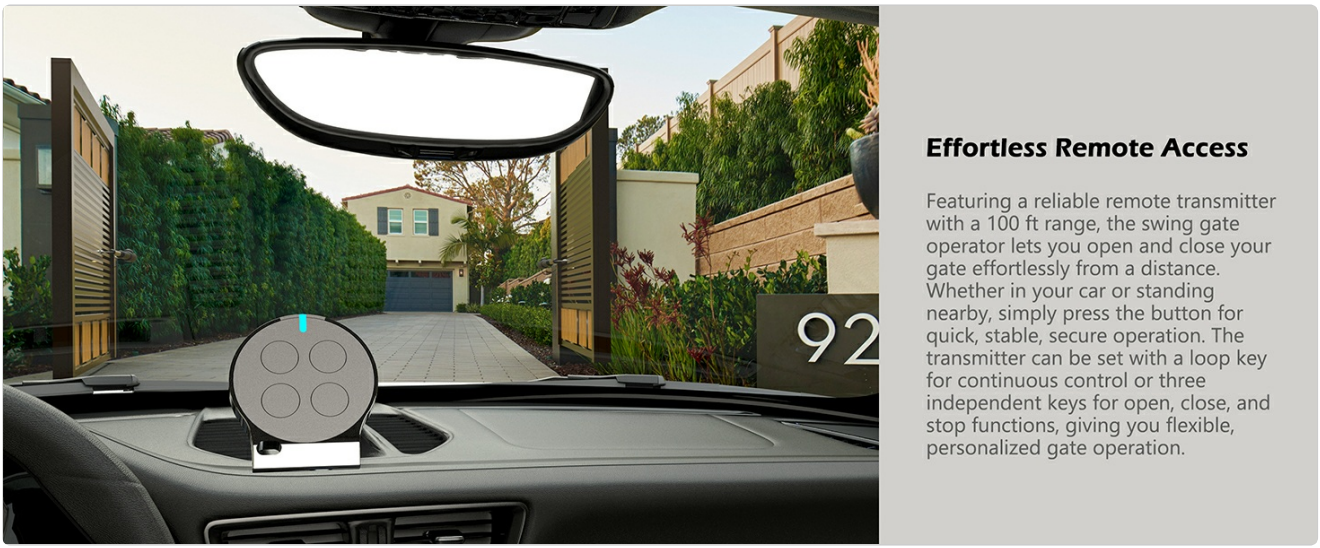


Figure 8: Dual Remote Controls for convenient access.

5. Setup and Installation

The Blütezeit MS650 is designed for straightforward installation. Refer to the included detailed user manual for specific diagrams and measurements.

5.1 Pre-Installation Checklist

- Ensure your gate is in good working condition, moving freely without binding.

- Confirm the gate dimensions and weight are within the operator's specifications (max 1760 lbs, 18 ft).
- Gather all necessary tools (drills, wrenches, measuring tape, level, etc.).
- Plan the mounting locations for the control box, solar panel, and operator arms.

5.2 Mounting the Control Box and Solar Panel

1. Mount the control box in a secure, accessible location near the gate, ensuring it is protected from direct impact.
2. Connect the solar panel to the control box. Position the 25W solar panel in an area that receives maximum direct sunlight throughout the day. Use the adjustable mounting bracket to optimize the angle.

5.3 Installing the Operator Arms

1. Attach the front and rear brackets to the gate post and gate frame, respectively, following the dimensions provided in the detailed manual.
2. Securely mount the dual operator arms to the installed brackets.
3. Connect the motor wires from each arm to the designated terminals in the control box.

5.4 Initial Setup and Auto-Learning

1. Power on the system.
2. Utilize the *Smart Auto-Setting Technology* by pressing the 'Automatic' button on the PCB. The system will automatically detect and memorize the gate's travel limits and optimal opening/closing plan.
3. Test the gate operation using the remote controls.

Video 1: Demonstration of the Blütezeit MS650 Solar Swing Gate Opener installation and operation, highlighting the built-in battery and easy setup process.

6. Operating Instructions

6.1 Remote Control Operation

- Press the designated button on the remote control to open or close the gate.
- The remote offers a 100ft range.
- Remotes can be configured for single-button cycle (open/stop/close/stop) or 3-button mode (open, close, stop).

6.2 Manual Release

In case of power outage or system malfunction, the gate can be operated manually:

1. Locate the manual clutch key slot on each operator arm.
2. Insert the provided manual clutch key and turn it to disengage the motor.
3. Manually push or pull the gate open or closed.
4. To re-engage, turn the key back and remove it.

6.3 Auto-Close Function

The auto-close function can be programmed via the control box. Set the desired delay time (0-99 seconds) after the gate opens before it automatically closes.

6.4 Pedestrian Mode

Activate pedestrian mode via the remote control or a compatible keypad to open only one gate leaf, allowing convenient access for individuals without fully opening the entire gate.

Video 2: Overview of the customizable features of the MS650 Solar & Battery Swing Gate Opener, including auto-learning, pedestrian mode, and adjustable settings.

7. Maintenance

Regular maintenance ensures the longevity and reliable operation of your gate opener.

- **Monthly:** Inspect the gate and operator arms for any loose fasteners, signs of wear, or damage. Ensure the gate moves freely without obstruction.
- **Quarterly:** Clean the solar panel surface to ensure maximum charging efficiency. Check all electrical connections for corrosion or looseness.
- **Annually:** Lubricate any moving parts of the gate hinges and operator arms as recommended in the detailed manual. Test all safety features, including photocells if installed.

8. Troubleshooting

If you encounter issues, refer to the detailed troubleshooting section in your user manual. Common issues often relate to power supply, remote control pairing, or obstructions. Ensure the battery is charged and the solar panel is receiving adequate sunlight. If problems persist, contact customer support.

9. Specifications

Specification	Value
Manufacturer	Blütezeit
Item Weight	40 pounds
Product Dimensions	29 x 3.5 x 3.5 inches
Item Model Number	ME-MS650
Batteries	1 Lithium Ion batteries required (included)
Color	Grey & Black
Style	Swing Gate Opener
Item Package Quantity	1
Included Components	1×Dual-Arm Swing Gate Operator, 1×25W Solar Panel, 1×Control Box with Built-in Lithium Battery, 2×Remote Controls, 2×Manual Clutch Key, 1×Hex Wrench, 2×Front Bracket, 2×Rear Bracket, 1×Installation Kits, 1×User Manual
Battery Cell Type	Lithium Ion
First Available	July 4, 2025

10. Warranty and Support

The Blütezeit MS650 Solar Swing Gate Opener comes with a **2-year warranty**. Additionally, lifetime technical support is available to assist with any questions or issues you may encounter. For support, please refer to the contact information provided in your product packaging or on the official Blütezeit website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question