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Blütezeit ME-GO-600-SP35

Blütezeit DC35V 25W Solar Panel Powered Charger Kit User Manual

Model: ME-GO-600-SP35

1. Introduction

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Blütezeit DC35V 25W Solar Panel Powered Charger Kit. This solar panel is specifically designed to provide a reliable and continuous power supply for Blütezeit ME-GO-600 series automatic sliding gate openers, ensuring optimal performance and extended battery life.
Please read this manual thoroughly before installation and operation to ensure safe and efficient use of the product. Keep this manual for future reference.

2. Safety Information

WARNING: ELECTRICAL HAZARD

- Always disconnect power before performing any installation or maintenance.
- The solar panel can generate high voltage and current when exposed to sunlight. Handle with care.
- Do not attempt to disassemble or modify the solar panel. This may cause damage and void the warranty.
- Ensure all connections are secure and waterproof, especially the DC 5521 connector.
- Install the solar panel in a location where it is not easily accessible to unauthorized persons or children.
- Wear appropriate personal protective equipment (PPE) during installation, including gloves and eye protection.

3. Package Contents

Verify that all components are present and undamaged upon opening the package:

- 1 × Blütezeit DC35V 25W Solar Panel
- 1 × Mount Bracket Kit (includes various brackets and fasteners)
- 1 × 10FT DC cable with 5521 waterproof connector

- 1 × Installation and Angle Adjustment Manual (separate document)

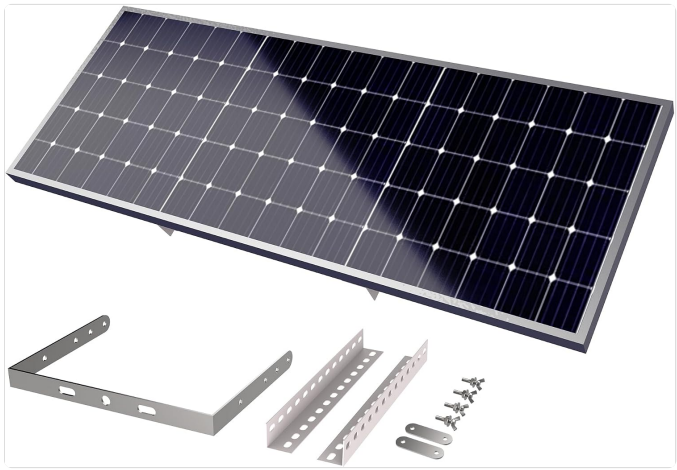

Image: Blütezeit DC35V 25W Solar Panel with included mounting brackets and fasteners.

4. Setup and Installation

Follow these steps for proper installation of your solar panel. Refer to the separate "Installation and Angle Adjustment Manual" for detailed diagrams and specific mounting instructions.

4.1 Choosing an Installation Location

Select a location that receives maximum direct sunlight throughout the day, free from obstructions like trees or buildings. The solar panel should be positioned to face south (in the Northern Hemisphere) for optimal energy collection. Ensure the surface is sturdy enough to support the panel and its mounting hardware.

4.2 Assembling the Mount Bracket

The included mount bracket allows for adjustable angles to optimize sun exposure. Assemble the bracket components as shown in the separate installation manual.

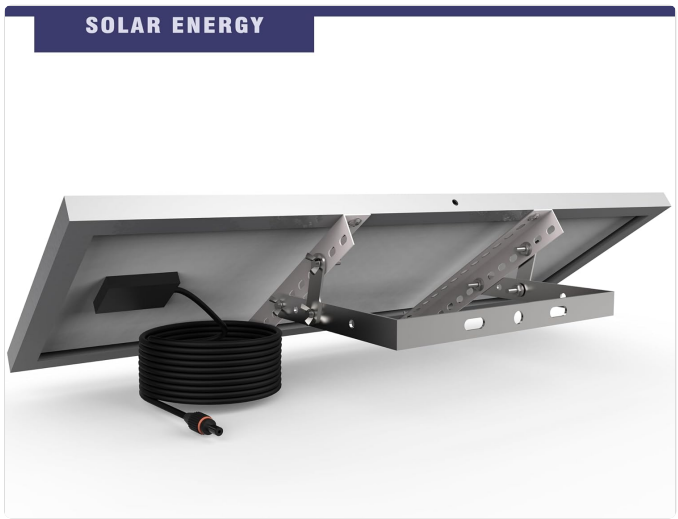

Image: Rear view of the solar panel showing the assembled mounting brackets.

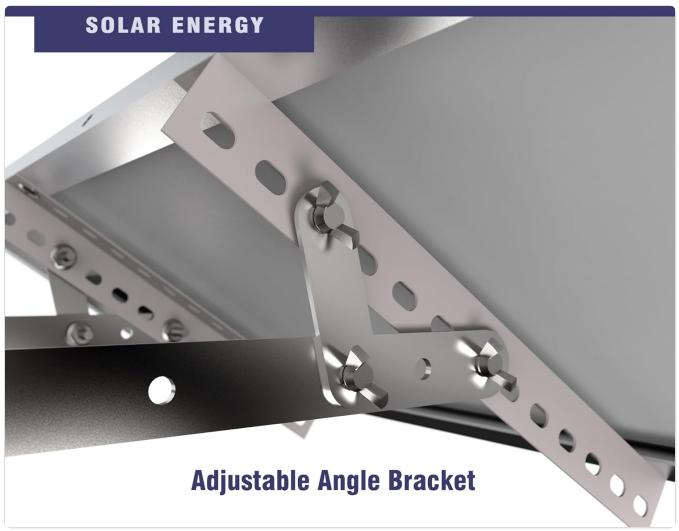

Image: Close-up view of the adjustable angle bracket, allowing for optimal solar positioning.

4.3 Mounting the Solar Panel

Secure the assembled solar panel and bracket to your chosen surface using appropriate fasteners (e.g., anchor bolts for concrete walls, as shown in the diagram). Ensure the panel is firmly attached and stable.

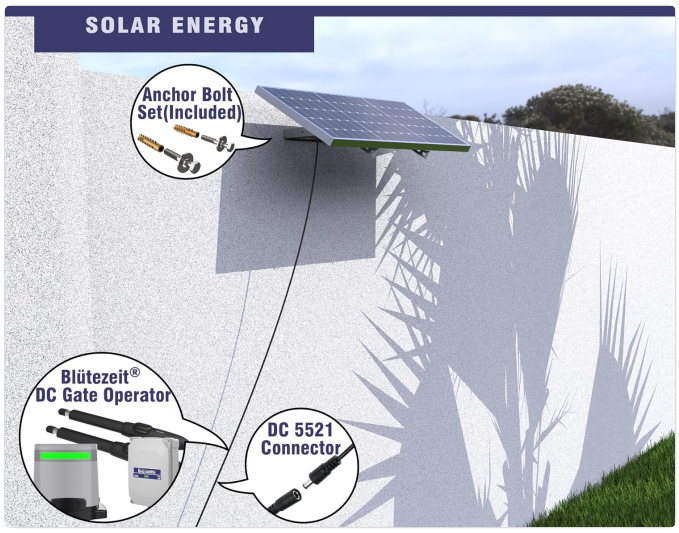

Image: Illustration of the solar panel mounted on a wall, connected to a Blütezeit DC Gate Operator.

4.4 Connecting to the Gate Opener

Connect the 10FT DC cable from the solar panel to the designated power input on your Blütezeit ME-GO-600 series automatic sliding gate opener. The cable features a 5521 waterproof connector for a secure and weather-resistant connection.

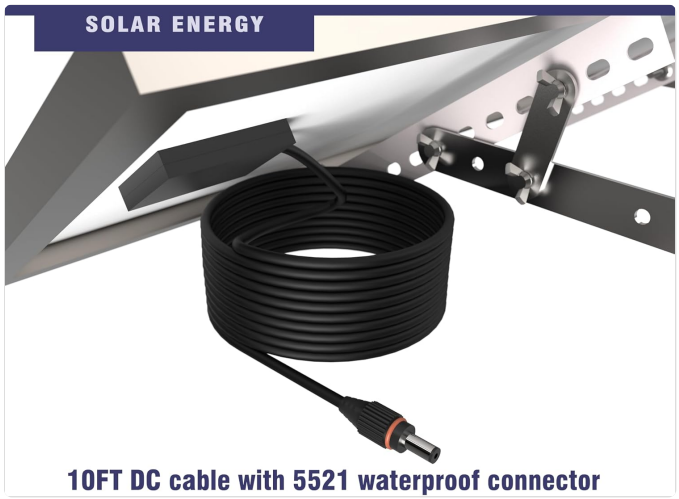

Image: The 10FT DC cable with its 5521 waterproof connector, designed for reliable outdoor use.

Ensure the connection is tight and the cable is routed safely to prevent tripping hazards or damage.

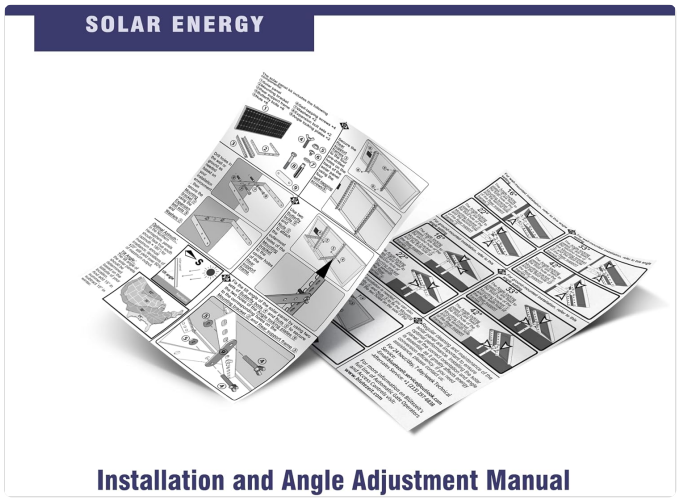

Image: The dedicated Installation and Angle Adjustment Manual, providing detailed visual guides for setup.

Note: For detailed visual instructions on assembly and mounting, please refer to the separate "Installation and Angle Adjustment Manual" included with your kit.

5. Operating Instructions

Once installed and connected, the Blütezeit DC35V 25W Solar Panel will automatically begin charging the built-in lithium-ion battery of your ME-GO-600 series gate opener when exposed to sufficient sunlight. There are no manual controls on the solar panel itself.

The solar panel is designed to provide a continuous trickle charge, maintaining the gate opener's battery level and extending its operational life. Performance may vary based on sunlight intensity, duration, and environmental factors such as temperature and cloud cover.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your solar panel.

- **Cleaning:** Periodically clean the surface of the solar panel with a soft cloth and mild, non-abrasive cleaner to remove dust, dirt, leaves, or other debris that may accumulate and reduce efficiency. Do not use harsh chemicals or abrasive materials.
- **Inspection:** Regularly inspect the solar panel, mounting brackets, and cables for any signs of damage, corrosion, or loose connections. Ensure the panel remains securely mounted.
- **Angle Adjustment:** For maximum efficiency, especially during seasonal changes, consider adjusting the panel's angle to optimize its exposure to direct sunlight. Refer to the "Installation and Angle Adjustment Manual" for guidance.
- **Environmental Factors:** In areas with heavy snowfall, clear snow from the panel surface to allow it to generate power.

7. Troubleshooting

If your gate opener's battery is not charging as expected, consider the following:

- **No Charge/Low Charge:**

- Ensure the solar panel surface is clean and free of obstructions (dirt, leaves, snow).
- Verify that the solar panel is receiving adequate direct sunlight. Shading, even partial, can significantly reduce output.
- Check all cable connections, especially the DC 5521 connector, to ensure they are secure and not damaged.
- Confirm the solar panel's angle is optimized for the current season and time of day.
- Inspect the cable for any cuts or damage that might interrupt power flow.

- **Physical Damage:**
  - If the tempered glass or aluminum frame is damaged, the panel's performance may be compromised. Contact customer support for assistance.

For persistent issues, refer to the troubleshooting section of your Blütezeit ME-GO-600 series gate opener manual or contact Blütezeit customer support.

8. Specifications

The following table details the technical specifications of the Blütezeit DC35V 25W Solar Panel:

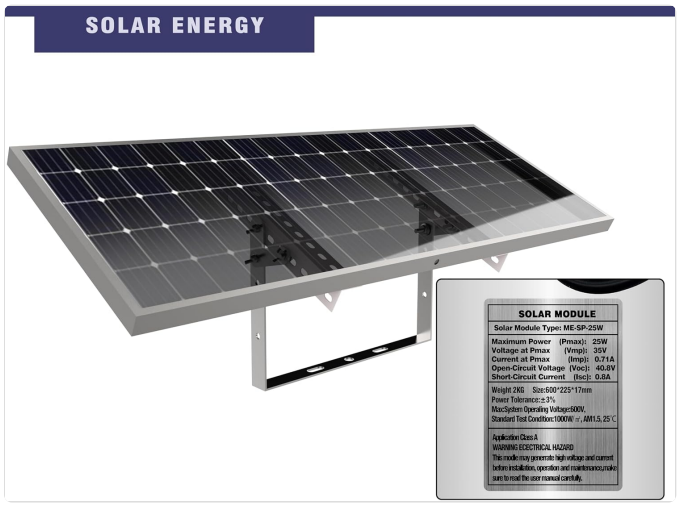

Image: Close-up of the solar module label, detailing electrical specifications.

Parameter	Value
Solar Module Type	ME-SP-25W
Maximum Power (Pmax)	25W
Voltage at Pmax (Vmp)	35V
Current at Pmax (Imp)	0.71A
Open-Circuit Voltage (Voc)	40.8V
Short-Circuit Current (Isc)	0.8A
Weight	5.51 pounds (approx. 2.5 kg)
Product Dimensions	23.62 x 8.86 x 0.67 inches (600 x 225 x 17 mm)
Power Tolerance	±3%
Max. System Operating Voltage	600V

Parameter	Value
Standard Test Condition	1000W/m², AM1.5, 25°C
Material	Tempered Solar Glass, Aluminum Frame
Waterproof Rating	IP65
Connector Type	DC 5521

9. Warranty and Support

Blütezeit offers an extended **12-month warranty** for this solar panel, covering defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
For technical assistance, troubleshooting, or warranty inquiries, please contact Blütezeit customer support. Our team provides **lifetime technical support** to ensure the optimal performance of your gate system.
You can find contact information and additional resources on the official Blütezeit website or through your purchase platform.
Note: Warranty terms and conditions may vary. Refer to the official Blütezeit warranty policy for complete details.

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