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Minetom 108FT (B0DQ9KWFH3)

Minetom Solar Outdoor Lights User Manual

Brand: Minetom | **Model:** 108FT (B0DQ9KWFH3)

1. Introduction

Thank you for choosing Minetom Solar Outdoor Lights. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your 108 FT solar string lights with 50 G40 shatterproof globe bulbs. Please read this manual thoroughly before use and retain it for future reference.

2. Safety Information

- Ensure all components are securely installed to prevent hazards.
- Do not attempt to modify or disassemble the product. Unauthorized modifications may void the warranty and pose safety risks.
- Keep the solar panel clean to ensure optimal charging efficiency.
- Avoid placing the solar panel in shaded areas, as this will reduce charging performance.
- The bulbs are shatterproof plastic, but handle with care during installation.
- This product is designed for outdoor use and is waterproof (IP44 for bulbs, IP65 for solar panel). However, avoid submerging any components in water.
- Keep out of reach of children.

3. Package Contents

Verify that all items listed below are included in your package:

- 1 x 108 FT Solar String Lights with 50 G40 LED Bulbs (plus 1 spare bulb)
- 1 x Solar Panel with integrated battery
- 1 x Ground Stake for solar panel
- 1 x Wall Mounting Clip for solar panel

- 1 x USB Charging Cable (Type-C)
- Mounting Hardware (screws, wall anchors, cable ties)



Figure 3.1: The complete Minetom Solar Outdoor Lights package, including the string of G40 shatterproof globe bulbs, the solar charging panel, a ground stake, a mounting clip, cable ties, and screws for installation.

4. Product Features

- **Energy-Efficient Illumination:** Converts solar energy into electricity, reducing energy costs and carbon footprint. Features light sensors for automatic dusk-to-dawn operation.
- **Versatile Charging Options:** Can be charged by sunlight (up to 10 hours) or via USB (Type-C) when sunlight is limited.
- **Durable and Safe Design:** G40 bulbs made with shatterproof premium plastic and IP44 waterproofing. The solar panel is IP65 waterproof. Designed to withstand various weather conditions.
- **Commercial-Grade Quality:** UL listed, utilizing efficient LED chips that save over 90% energy compared to incandescent

bulbs. Offers up to 6,000 hours of illumination.

- **Length and Bulbs:** 108 feet total length with 50 G40 globe LED bulbs.



Figure 4.1: The solar panel's robust IP65 waterproof design, capable of withstanding various weather conditions when mounted outdoors, such as on a fence.

5. Setup and Installation

Follow these steps to set up your Minetom Solar Outdoor Lights:

5.1 Solar Panel Placement

1. **Choose a Location:** Select an outdoor location for the solar panel that receives at least 6-8 hours of direct sunlight daily. Avoid shaded areas from trees, buildings, or other obstructions.
2. **Mounting Options:**

- **Ground Stake:** Attach the ground stake to the solar panel bracket and firmly insert it into the ground. Adjust the angle of the solar panel to face the sun directly.
- **Wall Mount:** Use the provided screws and wall anchors to secure the mounting clip to a wall or fence. Attach the solar panel to the clip and adjust its angle.
- **Clip Mount:** Use the provided clip to attach the solar panel to a railing, fence, or other suitable surface.

5.2 String Light Arrangement

1. **Uncoil the Lights:** Carefully uncoil the string lights, ensuring no tangles or knots.
2. **Connect to Solar Panel:** Plug the string light connector into the designated port on the solar panel.
3. **Position the Lights:** Hang the string lights in your desired outdoor area (e.g., patio, deck, garden, pergola). Use the integrated hanging loops on each bulb socket for easy installation with hooks, nails, or guide wires.
4. **Secure the Lights:** Use the provided cable ties or other suitable fasteners to secure the string lights, preventing them from swaying excessively in the wind.
5. **Note on Connectivity:** This 108FT string light set is designed as a single unit and is **not connectable** to other string light sets.



Figure 5.1: This visual guide showcases the versatile installation options for the solar panel: using a ground stake for garden placement, mounting it on a wall, or attaching it with a clip to a railing or fence, ensuring optimal sun exposure.



Figure 5.2: A technical diagram showing the total length of 108 feet, the spacing between individual G40 bulbs (24 inches), the lead cable length (108 inches), and confirming that multiple sets are not designed to be connected end-to-end.

6. Operating Instructions

Your Minetom Solar Outdoor Lights are designed for simple, automatic operation.

6.1 Automatic Operation

- Once the solar panel is exposed to sunlight, it will begin charging the internal battery.
- The integrated light sensor will automatically turn the lights ON at dusk and OFF at dawn.
- Ensure the solar panel is not obstructed by other light sources at night, as this may prevent the lights from turning on.

6.2 Charging Options

- **Solar Charging:** The primary charging method. Position the solar panel to receive maximum direct sunlight for optimal performance. A full charge typically provides over 10 hours of illumination.
- **USB Charging:** In periods of limited sunlight (e.g., prolonged cloudy weather, winter), you can charge the solar panel's internal battery using the provided USB Type-C cable. Connect the cable to the solar panel's USB port and a standard USB power adapter (not included).



Figure 6.1: The solar panel positioned in a garden, demonstrating its ability to charge during the day and provide illumination for over 10 hours at night, contributing to energy efficiency.



Figure 6.2: This image demonstrates the dual charging capabilities of the Minetom solar lights. On the left, the solar panel is shown absorbing sunlight for energy. On the right, the panel is connected via USB to a power outlet, providing an alternative charging method for cloudy days or when direct sunlight is limited.

7. Maintenance

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

- **Clean Solar Panel:** Periodically wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, leaves, or snow. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Bulb Care:** While the G40 bulbs are shatterproof, inspect them occasionally for any damage. If a bulb needs replacement, use a compatible G40 LED bulb.
- **Cable Inspection:** Check the string light cable and connections periodically for any signs of wear, fraying, or damage. Ensure all connections remain secure.
- **Winter Storage:** If storing the lights for an extended period, especially during winter in harsh climates, ensure the battery is fully charged. Store in a cool, dry place.

8. Troubleshooting

If you encounter issues with your Minetom Solar Outdoor Lights, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on at night.	Solar panel not receiving enough sunlight.	Relocate the solar panel to an area with 6-8 hours of direct sunlight. Clean the solar panel surface.
	Solar panel is detecting ambient light.	Ensure the solar panel is not near other light sources (e.g., streetlights, porch lights) that might prevent the light sensor from activating.
	Battery is not charged or low.	Allow the solar panel to charge for at least 1-2 full sunny days. If persistent, try USB charging.

Problem	Possible Cause	Solution
Lights are dim or only stay on for a short time.	Insufficient charging.	Ensure the solar panel is clean and receives maximum direct sunlight. Consider USB charging if solar conditions are poor.
	Aging battery.	Over time, rechargeable batteries may lose capacity. If the product is old, battery replacement might be necessary (consult manufacturer).
Individual bulbs are not lighting up.	Damaged or loose bulb.	Gently check if the bulb is securely seated. Replace with a spare G40 LED bulb if damaged.
Water inside the bulb.	Seal integrity compromised.	While bulbs are IP44, extreme conditions or damage can lead to water ingress. Replace the affected bulb.

9. Specifications

Feature	Specification
Brand	Minetom
Model	108FT Solar Outdoor Lights
ASIN	B0DQ9KWFH3
Total Length	108 FT
Number of Bulbs	50 G40 LED Bulbs (plus 1 spare)
Bulb Type	G40 Shatterproof Globe LED
Light Color	Warm White (Yellow)
Power Source	Solar Powered (with USB-C charging option)
Indoor/Outdoor Usage	Outdoor
Special Feature	Corded, Auto On/Off Sensor
Waterproof Rating (Bulbs)	IP44
Waterproof Rating (Solar Panel)	IP65
Battery Type	3 A batteries (included)
Item Weight	4.2 pounds
Package Dimensions	10.64 x 10.39 x 7.52 inches

10. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact Minetom customer service directly.

Keep your purchase receipt as proof of purchase.

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