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TIN SUM SOLAR ENERGY Solar Street Lights Outdoor

User Manual for 1200W Solar Street Lights

Brand: **TIN SUM SOLAR ENERGY** | Model: **Solar Street Lights Outdoor**

1. Introduction

Product Overview

The TIN SUM SOLAR ENERGY 1200W Solar Street Light is a high-efficiency, 100% solar-powered outdoor lighting solution designed for various applications such as gardens, garages, roads, and yards. This robust light features a die-cast aluminum frame and high-efficiency solar panels, ensuring reliable operation even in challenging weather conditions. It provides super bright illumination with 42000 Lumens at 6500K color temperature, capable of illuminating an area of more than 3150 sq ft².

Equipped with intelligent control features, the light automatically turns on at dusk and off at dawn. It also includes a remote control for convenient operation, allowing users to adjust brightness, set timers, and activate motion sensor modes. Its easy installation process requires no wiring, making it a low-maintenance lighting option.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1 x Solar Street Light
- 1 x Solar Panel
- 1 x Remote Control
- 12 x Nuts
- 12 x Screws
- 1 x Lamp Arm
- 1 x User Manual



Figure 2.1: Included components and their approximate dimensions.

This image illustrates the main solar street light unit, the separate solar panel, the remote control, and various mounting hardware including nuts, screws, and the lamp arm. Key dimensions for the light and solar panel are also indicated.

3. Specifications

Feature	Detail
Brand	TIN SUM SOLAR ENERGY
Model Name	Solar Street Lights Outdoor
Power Source	Solar Powered
Wattage	1200W (equivalent) / 300 Watts (actual)
Brightness	Max 42000 Lumens

Feature	Detail
Color Temperature	6500K (Daylight White)
LED Quantity	968pcs
Material	Die-cast Aluminum
Waterproof Level	IP67
Charging Time	6-8 Hours (full sunlight)
Work Time	10-12 hours (after fully charged)
Product Dimensions	24.1"L x 16.1"W x 6.2"H
Solar Panel Size	13.8" x 22.8" (35 x 58 cm)
Flood Light Size	21.6" x 9.2" (55 x 23 cm)
Installation Height	Recommended 13.1-22.9 ft (4-7 meters)
Control Method	Light Control (Dusk to Dawn), Remote Control
Special Feature	Motion Sensor, Not Dimmable (via remote, but brightness levels can be set)
Battery	1 Lithium Ion battery (included)

4. Setup and Installation

Mounting Location

Choose a location that receives direct sunlight for at least 6-8 hours daily to ensure optimal charging of the solar panel. The light can be mounted on a wall, pole, tree, or balcony. Ensure the installation height is between 13.1-22.9 feet (4-7 meters) for effective illumination coverage.

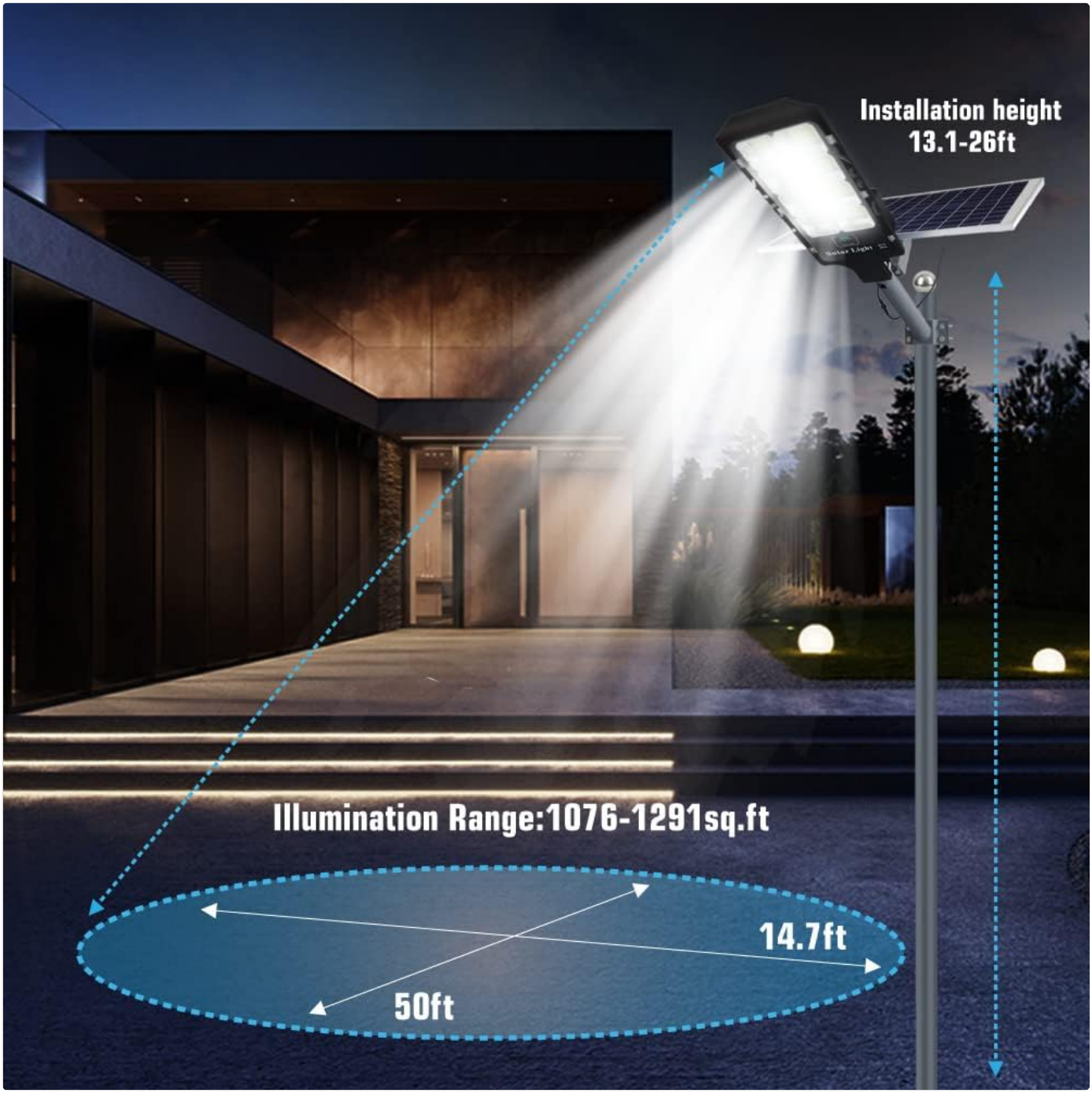


Figure 4.1: Recommended installation height and approximate illumination range.

This image illustrates the ideal installation height for the solar street light, ranging from 13.1 to 26 feet, and demonstrates the wide illumination area it covers, approximately 1076-1291 square feet.

Installation Steps

1. **Assemble Lamp Arm:** Attach the lamp arm to the main light fixture using the provided nuts and screws. Ensure it is securely fastened.
2. **Mount Solar Panel:** Securely attach the solar panel to the top of the lamp arm or directly to the light fixture, ensuring it faces the direction of maximum sunlight exposure.
3. **Connect Wiring:** Connect the cable from the solar panel to the designated port on the solar street light. Ensure the connection is firm and waterproof.
4. **Mount Light Fixture:** Using the assembly accessories set, mount the entire light fixture onto your chosen pole or wall. Ensure the mounting is stable and can withstand outdoor elements.
5. **Initial Charge:** Allow the solar light to charge for at least 6-8 hours in direct sunlight before its first use to ensure the

battery is fully charged.

No wiring to an external power source is required for operation, simplifying the installation process.

5. Operation

Automatic Operation (Dusk to Dawn)

The solar street light is equipped with a light control sensor. It will automatically turn on at dusk when ambient light levels are low and turn off at dawn when sufficient sunlight is detected. This feature ensures energy efficiency and hands-free operation.



Figure 5.1: Dusk to Dawn automatic operation.

This image visually represents the light's automatic function: charging during the day under sunlight and illuminating at night for over 16 hours.

Remote Control Functions

The included remote control provides convenient access to various lighting modes and settings:

- **ON/OFF:** Manually turn the light on or off.
- **Automatic Optical Control:** Activates the dusk-to-dawn sensor.
- **100% Brightness:** Sets the light to full brightness.
- **50% Brightness:** Sets the light to half brightness.
- **Motion Sensor Mode:** Activates the motion detection feature (see below).
- **Increase/Reduce Brightness:** Adjusts the light intensity.
- **Timer Settings (6H, 4+6, 8H, 4+8):**
    - **6H:** 6 hours at 100% brightness.
    - **4+6:** Light sensing mode for 4 hours, then activate motion sensing mode for 6 hours.
    - **8H:** 8 hours at 100% brightness.
    - **4+8:** Light sensing mode for 4 hours, then activate motion sensing mode for 8 hours.



Figure 5.2: Remote Control Functions.

This image provides a detailed layout of the remote control, clearly labeling each button and its corresponding function, including power, brightness adjustments, motion sensor activation, and various timer settings.

Motion Sensor Mode

When motion sensor mode is activated via the remote control, the light will operate at a low brightness (e.g., 30%) when

no motion is detected. Upon detecting motion within its range, the light will automatically switch to full brightness (100%) for a set period, then return to low brightness when motion ceases. This feature conserves battery life while providing enhanced security.



Figure 5.3: Motion Sensor Operation.

This image illustrates the motion sensor functionality, showing the light at 30% brightness when no motion is detected and switching to 100% brightness upon motion detection.

6. Maintenance

To ensure optimal performance and longevity of your solar street light, regular maintenance is recommended:

- **Clean Solar Panel:** Periodically wipe the surface of the solar panel with a soft, damp cloth to remove dust, dirt, leaves, or snow. A clean panel ensures maximum sunlight absorption and charging efficiency.
- **Check Connections:** Occasionally inspect all cable connections to ensure they are secure and free from corrosion.
- **Clear Obstructions:** Ensure no trees, buildings, or other objects are casting shadows on the solar panel, especially during peak sunlight hours.

- **Battery Care:** While the battery is designed for long life, avoid prolonged periods of storage without charging. If storing the light, ensure it has a full charge and recharge it every few months.

7. Troubleshooting

If you encounter issues with your solar street light, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient charging due to lack of direct sunlight.	Ensure solar panel is in direct sunlight for 6-8 hours daily. Clean the solar panel.
Light is dim or only stays on for a short period.	Battery not fully charged or aging battery.	Verify solar panel placement and cleanliness. Allow several sunny days for full charge. If issue persists after years, battery may need replacement (contact support).
Remote control not working.	Remote battery dead or obstruction.	Replace remote control batteries. Ensure no obstructions between remote and light's sensor.
Motion sensor not detecting.	Sensor obstructed or incorrect mode.	Ensure sensor lens is clean and unobstructed. Verify motion sensor mode is activated via remote.

8. Warranty and Support

Warranty Information

TIN SUM SOLAR ENERGY products are covered by a**3-year unlimited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
Please retain your proof of purchase for warranty claims.

Customer Support

For any questions, technical assistance, or warranty claims, please contact our customer service team. We are available 24/7 to assist you.
Contact details (e.g., email, phone number, website) would typically be provided here by the manufacturer.

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