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GRIFEMA GD203

GRIFEMA GD203 Outdoor Solar Light User Manual

Model: GD203

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your GRIFEMA GD203 Outdoor Solar Light. Please read this manual thoroughly before use to ensure proper function and longevity of the product.

Safety Information

- Ensure the solar panel receives direct sunlight for optimal charging.
- Do not attempt to disassemble or modify the product.
- Keep away from open flames or extreme heat sources.
- Dispose of the product according to local regulations at the end of its lifespan.
- The product is IP65 waterproof, but avoid submerging it in water.

Package Contents

- 1 x GRIFEMA GD203 Outdoor Solar Light
- 1 x Mounting Hardware (screws and wall plugs)
- 1 x User Manual

Product Overview

The GRIFEMA GD203 is an outdoor solar-powered wall light featuring 100 LEDs, a motion sensor, and IP65 waterproofing. It is designed for various outdoor applications such as gardens, garages, patios, and pathways.



Figure 1: Front view of the GRIFEMA GD203 Outdoor Solar Light, showing the solar panel, motion sensor, and LED arrays.

Key Features:

- **100 LED Illumination:** Provides bright, wide-angle lighting with 270° coverage.
- **PIR Motion Sensor:** Detects movement within 3-5 meters at a 180° angle, activating the light automatically.
- **IP65 Waterproof:** Designed to withstand various weather conditions, ensuring durability.
- **Solar Powered:** Charges during the day and operates at night, requiring no external wiring.
- **Three Lighting Modes:** Offers versatile lighting options to suit different needs.

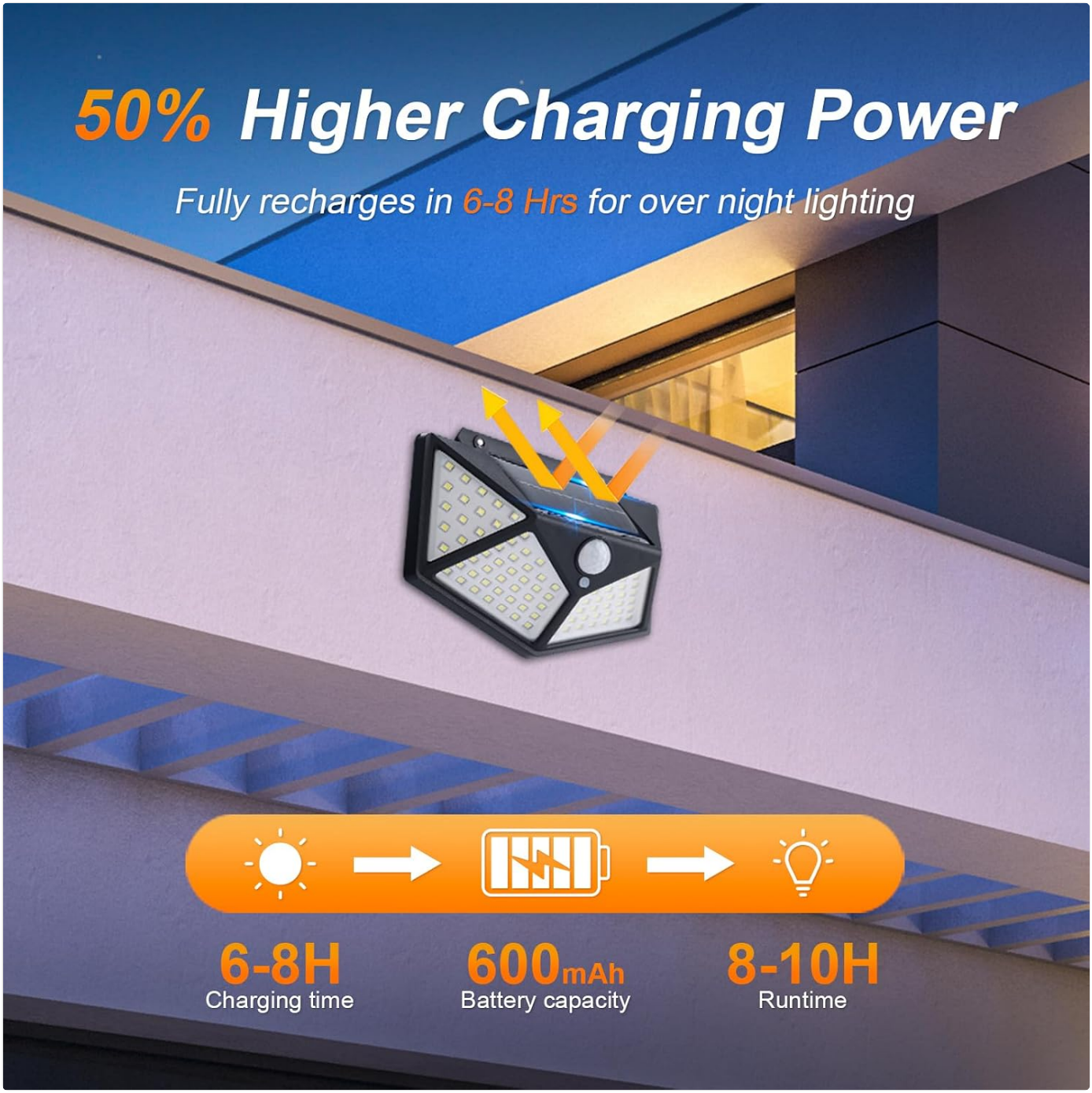


Figure 2: Illustration of the solar light's charging capability, indicating 6-8 hours charging time for 8-10 hours runtime.



Figure 3: Visual representation of the IP65 waterproof rating, highlighting resistance to rain, cold, heat, and wind.

Setup and Installation

The GRIFEMA GD203 solar light is designed for easy installation without the need for complex wiring. Follow these steps for optimal placement and setup:

1. **Choose a Location:** Select a location that receives direct sunlight for at least 6-8 hours daily to ensure the solar panel charges effectively. The recommended optimal mounting height is 2-4 meters (6.5-13 feet).
2. **Mark Drill Holes:** Hold the light against the desired mounting surface and mark the positions for the screw holes.
3. **Drill Holes:** Use a drill tool to create holes at the marked positions. Insert the provided wall plugs into the drilled holes.
4. **Mount the Light:** Align the light with the wall plugs and secure it using the provided screws. Ensure it is firmly attached.
5. **Activate and Select Mode:** Once mounted, press the power/mode button to turn on the light and select your

desired operating mode.



Figure 4: Step-by-step guide for installing the solar light, including drilling, mounting, and mode selection.

Operating Instructions

The GRIFEMA GD203 solar light features a built-in PIR motion sensor and three distinct lighting modes. Use the mode button to cycle through the options:



Figure 5: Diagram illustrating the three operational modes of the solar light.

- **Mode 1: Motion Sensor Full Brightness (OFF-to-ON)**

  The light remains off until motion is detected. When motion is sensed, the light turns on at 100% brightness. It will turn off automatically after approximately 20 seconds if no further motion is detected.

- **Mode 2: Dim-to-Bright Motion Sensor (Dim-to-Bright)**

  The light stays on at a constant 10% brightness. When motion is detected, it switches to 100% brightness. After approximately 20 seconds without motion, it returns to 10% brightness.

- **Mode 3: Constant Low Brightness (Always ON)**

  The motion sensor is off in this mode. The light remains on at a constant 30% brightness from dusk until dawn, or until the battery depletes.

The motion sensor has a detection range of 3-5 meters (10-16 feet) and a 180° detection angle.



Figure 6: Illustration showing the 180° detection angle and 10-16ft sensor distance of the motion detector.

Maintenance

To ensure the optimal performance and longevity of your GRIFEMA GD203 solar light, follow these simple maintenance guidelines:

- **Clean the Solar Panel:** Regularly wipe 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 Mounting:** Periodically inspect the mounting screws and ensure the light is securely attached to the wall. Tighten if necessary.
- **Clear Obstructions:** Ensure no new obstructions (e.g., growing branches, new structures) are blocking direct sunlight from reaching the solar panel.
- **Battery Care:** The integrated battery is designed for long-term use. Avoid prolonged storage in a completely discharged state. If storing for an extended period, ensure it is fully charged first.

Troubleshooting

If your GRIFEMA GD203 solar light is not functioning as expected, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Light does not turn on at night.	◦ Insufficient sunlight for charging. ◦ Solar panel is dirty or obstructed. ◦ Light is not activated (OFF mode).	◦ Relocate the light to an area with more direct sunlight. ◦ Clean the solar panel surface. ◦ Press the mode button to select an active lighting mode (Mode 1, 2, or 3).
Light is dim or only stays on for a short period.	◦ Incomplete battery charge due to insufficient sunlight. ◦ Solar panel is dirty. ◦ Battery capacity degradation over time (less common for new products).	◦ Ensure the light is placed in an area receiving full, direct sunlight for 6-8 hours daily. ◦ Clean the solar panel. ◦ Allow several days of full charging before re-evaluating performance.
Motion sensor is not detecting movement.	◦ Light is in Mode 3 (Always ON), where the motion sensor is inactive. ◦ Obstruction in front of the sensor. ◦ Detection range exceeded.	◦ Switch to Mode 1 or Mode 2. ◦ Clear any objects blocking the sensor. ◦ Ensure movement is within 3-5 meters of the sensor.

Specifications

Feature	Detail
Brand	GRIFEMA
Model Number	GD203
Colour	Black
Material	Plastic
Light Source Type	LED
Number of Light Sources	100
Power Source	Solar Powered
Special Features	3 lighting modes, PIR Motion Sensor, 270° Wider Lighting, Waterproof
Motion Sensor Detection Angle	180°
Motion Sensor Detection Distance	3-5 meters (10-16 feet)
IP Rating	IP65 Waterproof
Product Dimensions	12.5L x 5W x 9.6H Centimeters
Item Weight	190 g

Feature	Detail
Recommended Mounting Height	2-4 meters
Charging Time	6-8 hours (direct sunlight)
Runtime	8-10 hours (depending on mode and charge)

Warranty and Support

GRIFEMA products are manufactured with quality and reliability in mind. While specific warranty details are not provided in this manual, please retain your proof of purchase for any warranty claims.
For technical support, product inquiries, or assistance with troubleshooting beyond the scope of this manual, please contact GRIFEMA customer service through their official website or the retailer from whom you purchased the product. Always refer to the official GRIFEMA website for the most up-to-date information regarding warranty terms and support contacts.

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