EMOS ZG122S

EMOS Solo LED Solar Floodlight with Motion Detector

Model: ZG122S

1. Introduction

Thank you for choosing the EMOS Solo LED Solar Floodlight. This outdoor wall light is designed to provide efficient and economical illumination for pathways, facades, garden houses, and other outdoor areas. Featuring a motion detector and three adjustable lighting modes, it offers versatile and reliable lighting powered by solar energy.

Please read this instruction manual carefully before installation and use to ensure proper function and longevity of your product. Keep this manual for future reference.

2. Safety Instructions

- Ensure the product is installed by a qualified person if you are unsure about the process.
- Do not attempt to modify or disassemble the product, as this may void the warranty and pose safety risks.
- Keep the solar panel clean to ensure optimal charging efficiency.
- This product is designed for outdoor use and is weather-resistant (IP54). However, avoid submerging it in water.
- Dispose of the battery responsibly according to local regulations when it reaches the end of its life.

3. Package Contents

Verify that all components are present in the package:

- EMOS Solo LED Solar Floodlight
- Mounting accessories (screws, wall plugs)

4. Product Features

- **Solar Powered:** Equipped with a 3600 mAh solar battery, eliminating the need for electrical wiring and saving energy costs.
- **Weather Resistant:** IP54 rating ensures high resistance to water and dust, suitable for various outdoor conditions.
- **Neutral White Light:** Provides 4000K neutral white light with a maximum intensity of 1600 lumens for clear visibility.
- **Sensor Controlled:** Features a twilight sensor and a motion detector with a 120° detection angle and a 6-meter

range.

- **3 Lighting Modes:** Easily adjustable modes to suit different lighting needs.
- **Easy Installation:** Stable, foldable bracket allows for flexible positioning and tilting of the solar panel for optimal sun exposure.
- **Flicker-Free Illumination:** Durable polycarbonate diffuser ensures uniform, flicker-free light distribution at a 100° angle.

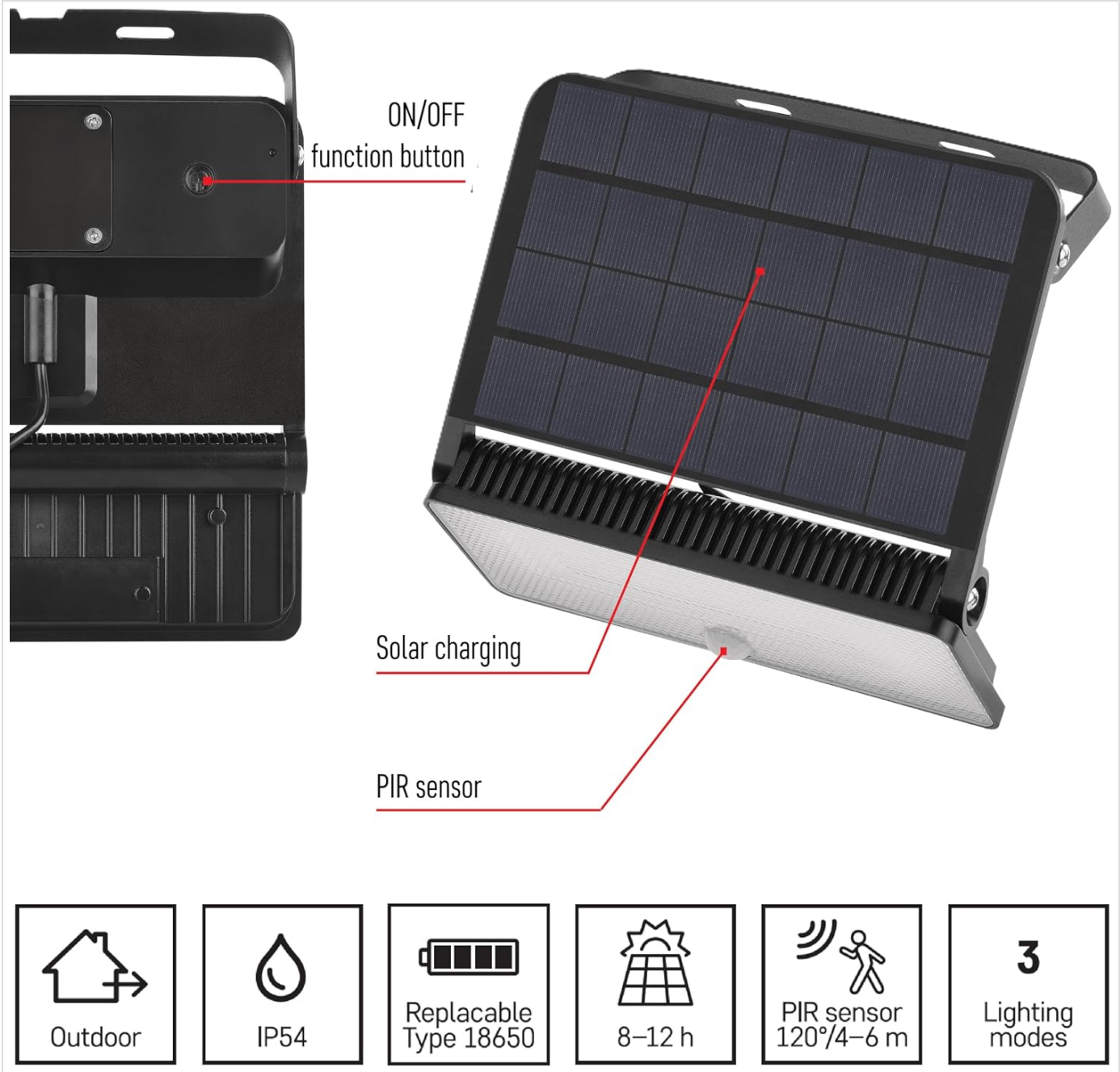


Figure 1: Key features and components of the EMOS Solo LED Solar Floodlight.

5. Specifications

Parameter	Value
Model Number	ZG122S
Dimensions (L x W x H)	18 x 2.4 x 19 cm
Weight	560 grams

Material	Aluminum, Glass
Power Source	Solar Powered
Battery Type	Li-ion 3.7 V / 3600 mAh (Replaceable Type 18650)
Luminous Flux	1600 lumens
Color Temperature	4000K (Neutral White)
Detection Angle (PIR)	120°
Detection Range (PIR)	6 meters
Protection Rating	IP54
Charging Time	8-12 hours (full charge)



Figure 2: Product overview with key specifications and charging guidance.

6. Installation

The EMOS Solo LED Solar Floodlight is designed for easy installation. Follow these steps:

1. **Choose a Location:** Select an outdoor location that receives direct sunlight for at least 8-12 hours daily to ensure optimal charging of the solar panel. Avoid areas under eaves, trees, or other obstructions that might block sunlight.
2. **Mark Drilling Points:** Use the mounting bracket as a template to mark the drilling points on the wall.
3. **Drill Holes:** Drill holes at the marked points and insert the wall plugs.
4. **Mount the Bracket:** Secure the mounting bracket to the wall using the provided screws.
5. **Attach the Light:** Attach the solar floodlight to the mounted bracket. The foldable design allows you to adjust the angle of the solar panel for maximum sun exposure and direct the light where needed.



Figure 3: Illustration of easy installation process.

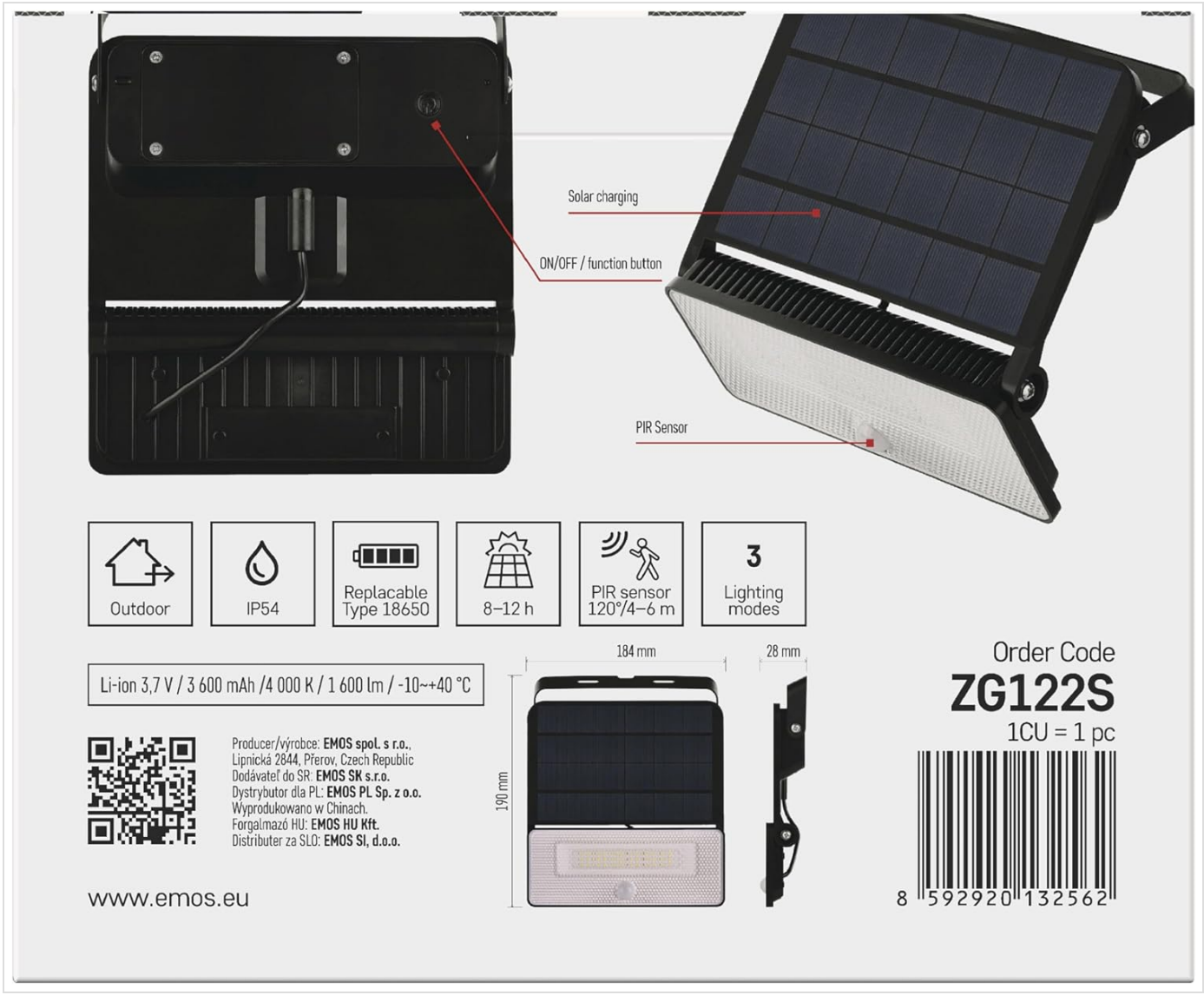


Figure 4: Installed floodlight demonstrating its weather resistance.

7. Operation

The EMOS Solo LED Solar Floodlight features an ON/OFF function button and three lighting modes. The light operates automatically based on ambient light and motion detection.

7.1 Initial Setup

Before first use, ensure the solar panel is exposed to direct sunlight for at least 8-12 hours to fully charge the battery.

7.2 Lighting Modes

Press the ON/OFF function button (refer to Figure 1) to cycle through the three lighting modes:

- **Mode 1 (Motion Sensor Mode):** The light remains off in darkness and turns on to full brightness (1600 lm) when motion is detected. It turns off after approximately 20-30 seconds of no motion.
- **Mode 2 (Dim Light + Motion Sensor Mode):** The light stays on at a dim level (e.g., 10% brightness) in darkness. When motion is detected, it switches to full brightness (1600 lm) and returns to dim light after approximately 20-30 seconds of no motion.
- **Mode 3 (Constant Dim Light Mode):** The light turns on at a constant dim level (e.g., 30% brightness) in darkness and stays on until the battery runs out or daylight returns. Motion detection is inactive in this mode.

To turn off the light, cycle through the modes until the light is off.

8. Maintenance

- **Cleaning:** Regularly wipe the solar panel with a soft, damp cloth to remove dust, dirt, or debris that may reduce charging efficiency. Do not use abrasive cleaners.
- **Battery Replacement:** The product uses a replaceable Type 18650 Li-ion battery. If the light's performance significantly degrades over time, the battery may need replacement. Consult a qualified technician or contact EMOS support for guidance on battery replacement.
- **Inspection:** Periodically check the mounting screws and bracket to ensure they are secure.

9. Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charging.	Ensure the solar panel is in direct sunlight for 8-12 hours. Clean the solar panel.
	Battery is depleted or faulty.	Allow several days of charging. If problem persists, consider battery replacement.
	Light mode is set incorrectly.	Press the ON/OFF button to cycle through modes and select the desired one.
Motion sensor is not working.	Obstruction in front of the sensor.	Clear any objects blocking the PIR sensor.
	Sensor range or angle is not optimal.	Adjust the light's position or angle to cover the desired detection area.
Light stays on constantly during the day.	Twilight sensor is obstructed or faulty.	Ensure no objects are covering the solar panel or light sensor.

10. Warranty and Support

The EMOS Solo LED Solar Floodlight comes with a**3-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support, warranty inquiries, or further information, please visit our website or contact EMOS customer service:

- **Website:** www.emos.eu



Figure 5: Product information and QR code for support.

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.

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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