MEIHUA MH2023

MEIHUA Solar Spot Lights User Manual

Model: MH2023

1. INTRODUCTION

Thank you for choosing MEIHUA Solar Spot Lights. This product is designed to provide efficient and versatile outdoor lighting for your garden, pathway, yard, or trees. Featuring adjustable color temperature, multiple brightness levels, and convenient remote control, these IP66 waterproof spotlights are an ideal solution for enhancing your outdoor spaces.
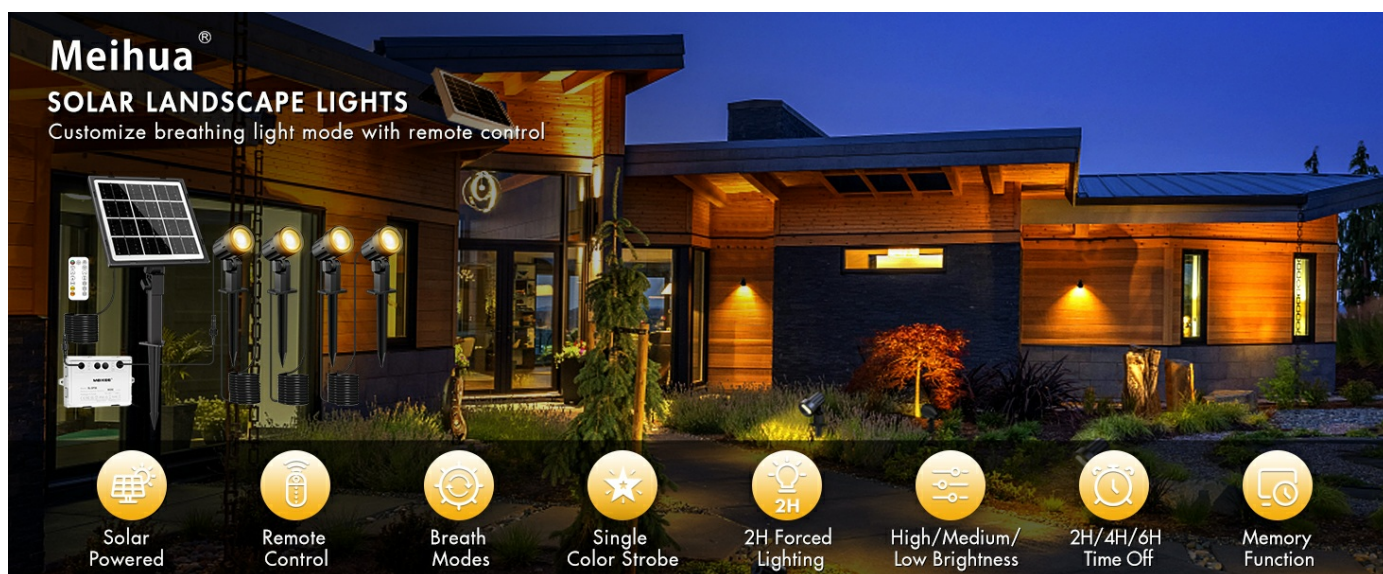

Image: MEIHUA Solar Landscape Lights illuminating an outdoor area.

2. PRODUCT FEATURES

- **Remote Control:** Easily select lighting modes, color temperature, and timing functions from up to 12m/39ft away.
- **Adjustable Color Temperature:** Choose between Warm Light (2700K), Warm White (4000K), and Cold Light (6500K), or steplessly adjust between 2700K-6500K.
- **Multiple Brightness Levels:** Three adjustable brightness settings: High (8 hours), Medium (12 hours), and Low (20 hours) of illumination.
- **Two Lighting Modes:** SMOOTH mode for cyclic color temperature changes and FLASH mode for single color strobe with adjustable speed.
- **Energy Saving:** Solar panels automatically charge during the day and lights turn on at night. Equipped with a 5000mAh battery capacity.

- **Memory Function:** Lights remember the last used settings for convenience.

- **Timing Function:** Set lights to turn off automatically after 2H, 4H, or 6H.

- **IP66 Waterproof & Dust-proof:** Designed to withstand various weather conditions year-round.

- **Two Installation Methods:** Can be installed on the ground or mounted on a wall.

Image: Key components and features of the MEIHUA Solar Spot Lights.

3. PACKAGE CONTENTS

Please check the package to ensure all components are present:

- Solar Panel with Ground Stake

- LED Spotlights (4 units for 4-in-1 model)

- Remote Control

- Ground Stakes for Spotlights

- Wall Mounting Screws and Anchors

- User Manual

Image: Complete package contents of the MEIHUA Solar Spot Lights.

4. SETUP AND INSTALLATION

The MEIHUA Solar Spot Lights offer two primary installation methods: ground insertion and wall mounting.

4.1 Solar Panel Placement

It is crucial to install the solar panel in an unobstructed location that receives full, direct sunlight for at least 6-8 hours daily. This ensures optimal charging and maximum illumination time at night.

Image: Proper solar panel placement for optimal charging.

4.2 Ground Installation

1. Attach the ground stake to the bottom of the solar panel and each spotlight.
2. Insert the stakes firmly into soft ground in your desired locations.
3. Adjust the angle of the solar panel to face the sun directly.
4. Adjust the angle of the spotlights to illuminate the desired area.

Image: Ground installation method.

4.3 Wall Mounting

1. Use the provided screws and anchors to mount the solar panel and spotlights to a wall or other solid surface.
2. Ensure the solar panel is positioned to receive maximum sunlight.
3. Adjust the angle of the spotlights to illuminate the desired area.

Image: Wall mounting method for the solar panel.

4.4 Connecting Components

Connect the solar panel to the control box, and then connect each spotlight to the control box using the provided cables. Ensure all connections are secure and the outdoor special connectors are properly sealed for IP66 waterproofing.

Image: Connection diagram and waterproof connector detail.

Video: Demonstration of solar charging and lights turning on automatically at night.

5. OPERATING INSTRUCTIONS

The MEIHUA Solar Spot Lights are operated using the included remote control.
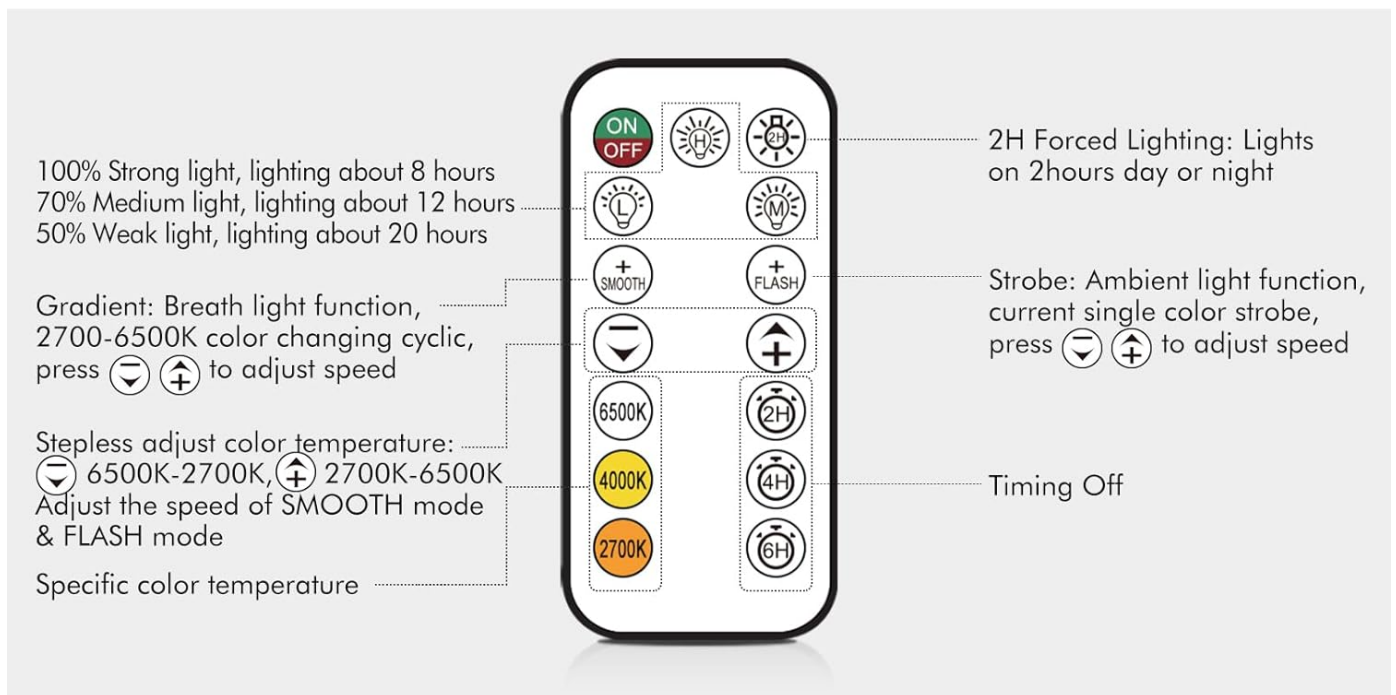
Image: Remote control functions and light dimensions.

100% Strong light, lighting about 8 hours
70% Medium light, lighting about 12 hours
50% Weak light, lighting about 20 hours

Gradient: Breath light function,
2700-6500K color changing cyclic,
press (⌄) (⌃) to adjust speed

Stepless adjust color temperature:
(⌄) 6500K-2700K, (⌃) 2700K-6500K
Adjust the speed of SMOOTH mode
& FLASH mode

Specific color temperature

2H Forced Lighting: Lights
on 2hours day or night

Strobe: Ambient light function,
current single color strobe,
press (⌄) (⌃) to adjust speed

Timing Off

5.1 Power On/Off

- Press the **ON/OFF** button on the remote to manually turn the lights on or off.
- The lights will automatically turn on at dusk and off at dawn if left in auto mode.
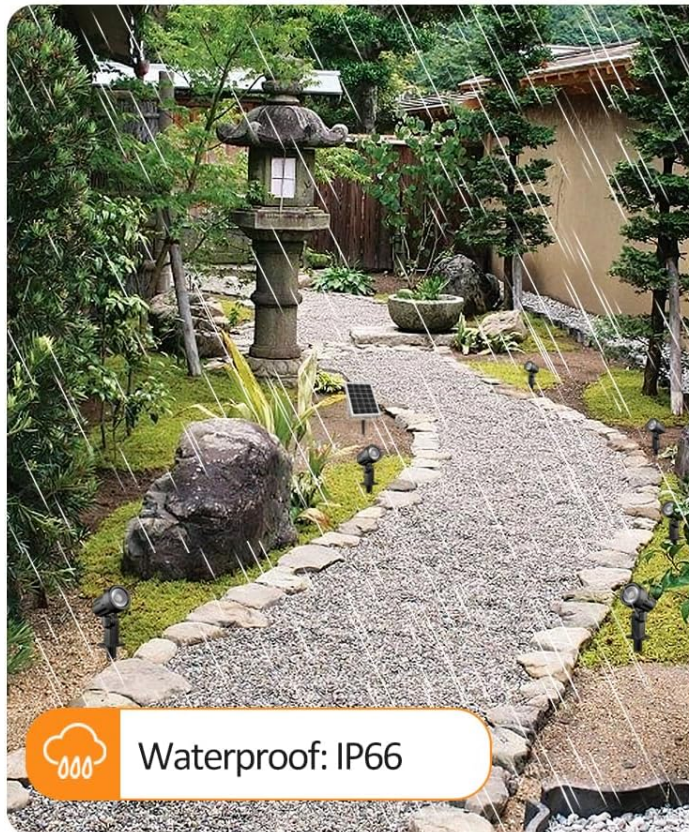
5.2 Adjusting Brightness

Select from three brightness levels:

- **High Brightness:** Provides approximately 8 hours of illumination.
- **Medium Brightness:** Provides approximately 12 hours of illumination.
- **Low Brightness:** Provides approximately 20 hours of illumination.

IP66 WATERPROOF: Professional for outdoor lighting

Heat Resistant: 40 ℃

Waterproof: IP66

Frost Resistant: -25 ℃

Image: Visual comparison of High, Medium, and Low light modes.

5.3 Adjusting Color Temperature

The lights offer adjustable color temperatures to suit your preference:

- Press the dedicated buttons for **2700K (Warm Light)**, **4000K (Natural White)**, or **6500K (Cold White)** for quick selection.
- Use the **+/-** buttons next to the color temperature icon to steplessly adjust the color temperature between 2700K and 6500K.
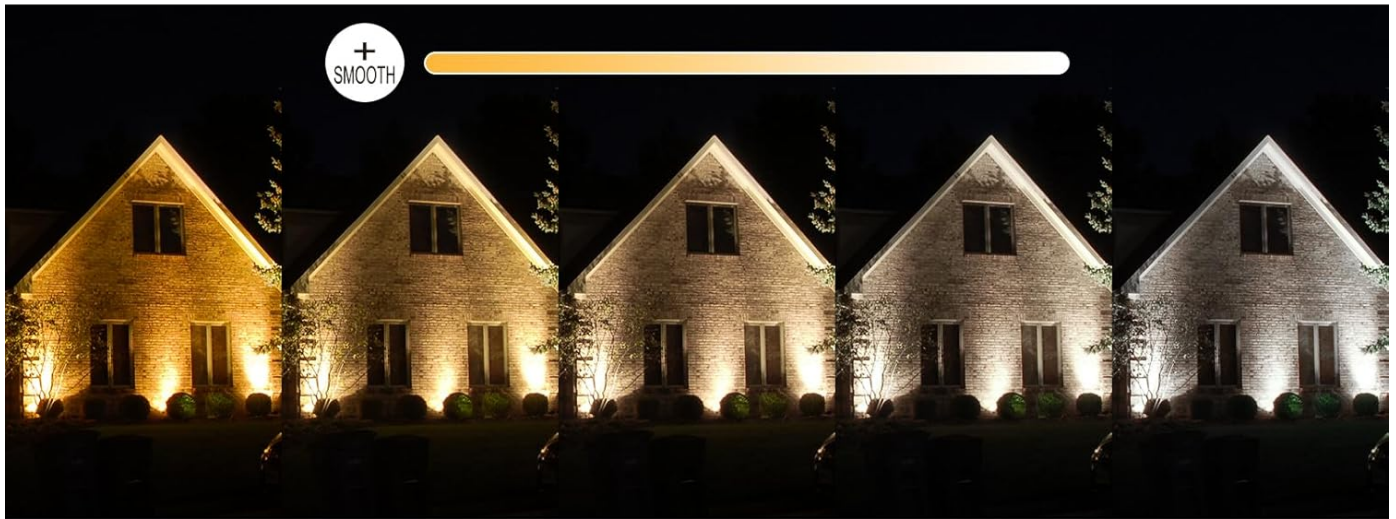
3 Specific Color Temperature

Image: Different color temperature options and stepless adjustment.

5.4 Lighting Modes (SMOOTH & FLASH)

- **SMOOTH Mode:** Activates a cyclic color temperature change from 2700K to 6500K. Use the **+/-** buttons to adjust the speed of the transition.

- **FLASH Mode:** Activates a single color strobe effect. Use the **+/-** buttons to adjust the strobe speed.

BREATH LIGHTS FUNCTION

The light will change to a 2700K-4000k-6500k-cyclic 3 color changing,
u could DIY the speed as you like

AMBIENT LIGHT FUNCTIONS

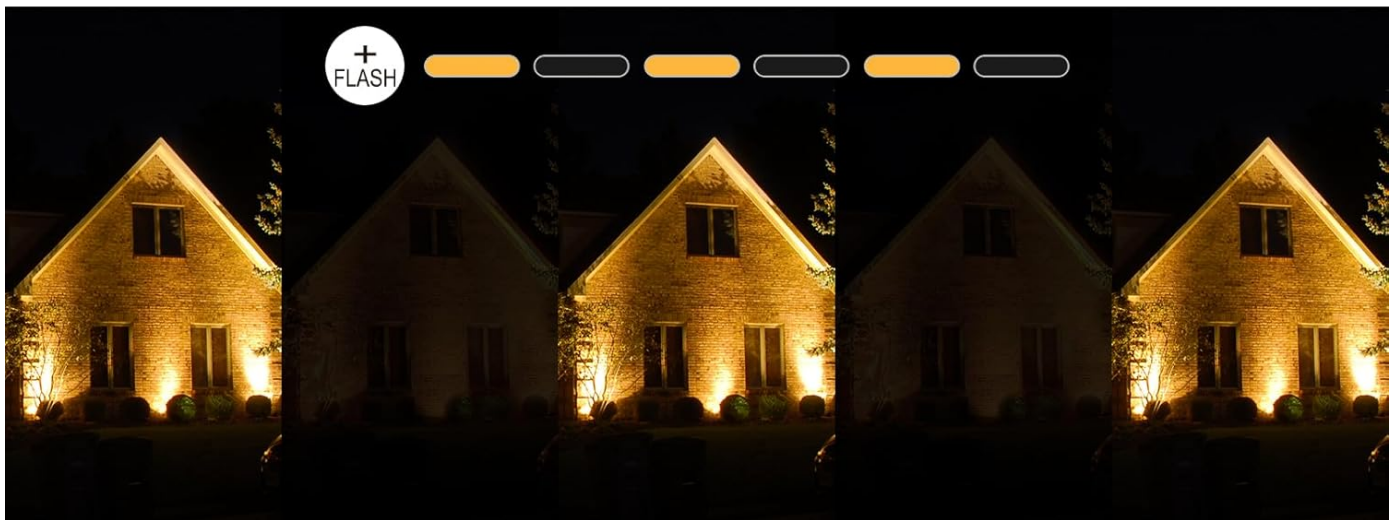The light will change to the current strobe single color, u could DIY the speed as you like

Image: SMOOTH (cyclic color change) and FLASH (strobe) lighting modes.

5.5 Timing and Memory Functions

- **Timing Function:** Press the **2H**, **4H**, or **6H** buttons to set the lights to automatically turn off after the selected duration from when they turn on at dusk.
- **Memory Function:** The lights will retain the last selected mode, brightness, and color temperature settings even after turning off and on again.

Timed Off Function

Lights on 2H/4H/6H and auto turn off, the next night will auto turn on again, but light on 2H /4H /6H timing mode.

Memory Function

Even if the lights auto turn off during the day, at night they will remember the previous mode settings and continue to turn on. It's convenient.

Image: Timed off and memory functions.

6. MAINTENANCE

The MEIHUA Solar Spot Lights are designed for durability and minimal maintenance.

- **Cleaning:** Periodically wipe the solar panel with a soft, damp cloth to remove dust, dirt, or debris. A clean panel ensures efficient charging.
- **Weather Resistance:** The lights are IP66 waterproof and dust-proof, designed to withstand rain, snow, and varying temperatures (-25°C to 40°C). No special protection is needed for typical outdoor conditions.
- **Connections:** Ensure all cable connections remain secure and the waterproof seals are intact to prevent water ingress.
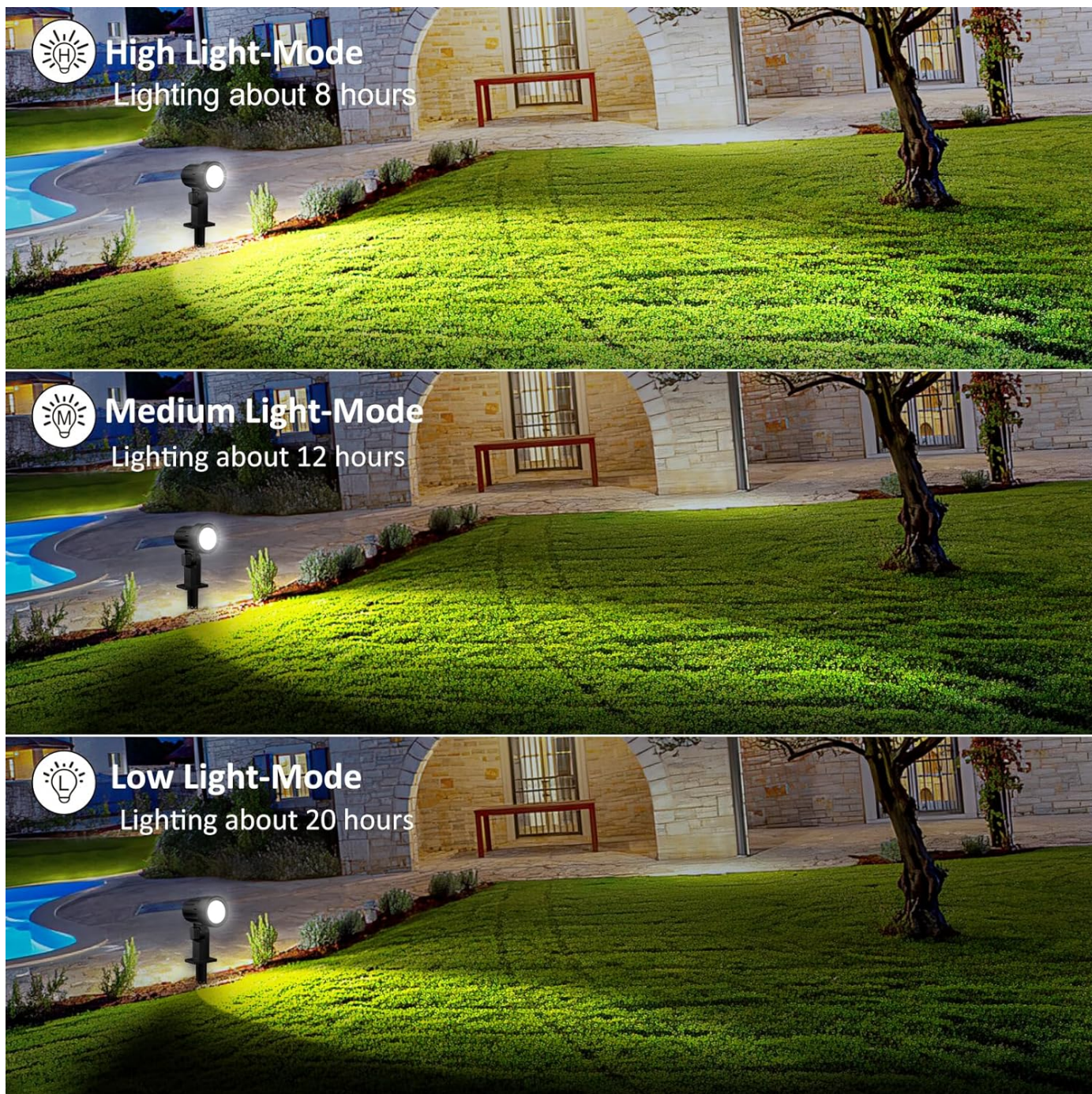
High Light-Mode
Lighting about 8 hours

Medium Light-Mode
Lighting about 12 hours

Low Light-Mode
Lighting about 20 hours

Image: IP66 Waterproof and temperature resistance features.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on at night.	Solar panel not receiving enough sunlight. Battery charge is low. Switch is off.	Relocate solar panel to an area with direct sunlight for 6-8 hours daily. Allow 1-2 sunny days for full charge. Ensure the ON/OFF button on the remote or control box is activated.
Lights work for a short duration.	Insufficient solar charging. Selected brightness mode is too high for available charge.	Ensure solar panel is clean and receives full sunlight. Select a lower brightness mode (Medium or Low) for longer illumination.
Remote control not working.	Battery in remote is dead. Obstruction between remote and control box.	Replace the remote control battery. Ensure clear line of sight to the control box.

Problem	Possible Cause	Solution
Lights flicker or behave erratically.	Loose connection. Water ingress in connections.	Check all cable connections and ensure they are secure and waterproof. If issue persists, contact customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	MH2023
Power Source	Solar Powered
Battery Capacity	5000mAh (Lithium Polymer)
Light Source	LED
Color Temperature	2700K / 4000K / 6500K (Adjustable)
Brightness Modes	High (8h), Medium (12h), Low (20h)
Control Method	Remote Control
Water Resistance	IP66 Waterproof
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions	5.91"L x 3.54"W x 7.8"H (approximate)
Item Weight	3.7 pounds

9. WARRANTY AND SUPPORT

MEIHUA products come with an extended warranty. For any questions, technical support, or warranty claims, please contact MEIHUA customer service through the retailer's platform or the official MEIHUA website. Please have your model number (MH2023) and purchase details ready when contacting support.
We are committed to providing reliable quality products and exceptional services.