

KARTOOSH ZM445

KARTOOSH ZM445 Solar Inground Pool Light User Manual

Model: ZM445

[Introduction](#) [Package Contents](#) [Specifications](#) [Safety Information](#) [Setup & Installation](#) [Operating](#)
[Instructions](#) [Maintenance](#) [Troubleshooting](#)

1. INTRODUCTION

Thank you for choosing the KARTOOSH ZM445 Solar Inground Pool Light. This product is designed to provide efficient and versatile lighting for your inground pool, enhancing both aesthetics and safety. Featuring 29 vibrant colors, 4 dynamic lighting modes, light-sensing technology, and an adjustable length, this waterproof LED light offers a customizable and convenient lighting solution. Please read this manual thoroughly before installation and use to ensure proper operation and longevity of your pool light.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x Solar Panel Unit
- 1 x Mounting Base
- 1 x LED Pool Light Panel
- 1 x Remote Control
- 1 x Adhesive Tube
- 1 x USB-C Charging Cable (for backup charging)
- 1 x User Manual (this document)

Extendable Length & Shine, Fits All Inground Pool Depths



Pool water levels need not be
compromised to the length of pool lights.

Image: Components of the KARTOOSH Solar Pool Light, including the solar panel, LED light unit, and remote control.

3. SPECIFICATIONS

Feature	Detail
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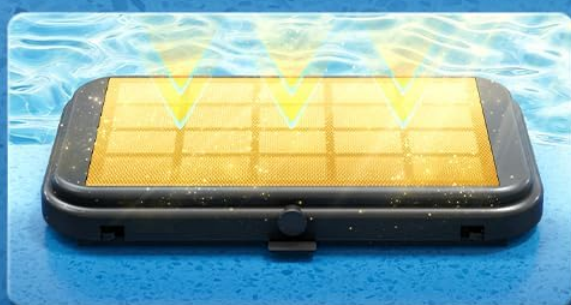
Model Number	ZM445
Light Source	54 LED beads
Brightness	10000 LUX
Colors & Modes	29 Colors, 4 Dynamic Modes (Flash, Strobe, Smooth, Fade)
Battery Capacity	10000mAh Lithium Ion
Charging	Solar Powered, USB-C Backup Charging
Adjustable Length	11.5 inches to 13.5 inches
Water Resistance	Waterproof (Fully sealed LED lamp chamber)
Dimensions	31.6 x 24.99 x 17.7 cm
Weight	1.5 kg
Material	Acrylonitrile Butadiene Styrene

4. SAFETY INFORMATION

Please observe the following safety precautions to prevent injury or damage to the product:

- This product is designed for **inground pools only**. Do not use with above-ground pools or pools with uneven/non-flat edges.
- Ensure the installation surface is clean, flat, and smooth for proper adhesion.
- Allow the adhesive to cure completely (24-48 hours) before submerging the light unit.
- Do not attempt to open or modify the sealed LED lamp chamber, as this will compromise its waterproof integrity.
- Keep the USB-C charging port covered when not in use to prevent water entry.
- Ensure the solar panel receives direct sunlight for optimal charging efficiency. For indoor or shaded use, utilize the USB-C charging option.
- Keep the remote control dry and away from water.
- Dispose of the product and its battery responsibly according to local regulations.

Upgrade Solar Efficiency and Energy Storage



10000mah

Battery Capacity

4.76in × 7.87in

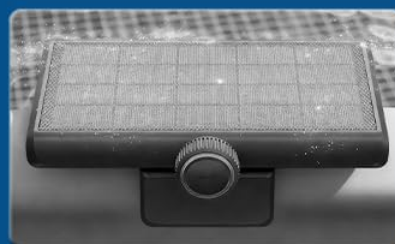
Solar Panel Up --- Conversion Rate Up

Monocrystalline

Less affected by low light and high heat



KARTOOSH's



6400mah

Battery Capacity

5.6in × 6.37in

Area of solar energy

Polycrystalline

Slower energy conversion
in low light and high heat

OTHERS

Image: Illustration showing the KARTOOSH Solar Pool Light is suitable for inground pools with flat edges, and not for above-ground or uneven pool edges.

5. SETUP & INSTALLATION

Follow these steps for proper installation of your KARTOOSH Solar Inground Pool Light:

1. **Surface Cleaning:** Thoroughly clean the installation surface on the pool edge to remove any dust, dirt, or moisture. The surface must be flat and smooth.
2. **Apply Adhesive:** Apply the provided adhesive evenly to the designated areas on the underside of the solar panel mounting base.
3. **Attach Solar Panel:** Press the solar panel mounting base firmly onto the cleaned pool edge. Hold it in place for approximately 5 minutes to ensure initial adhesion.
4. **Curing Time:** Allow the adhesive to set for 24-48 hours to ensure the adhesive bonds completely and securely before proceeding to the next step or submerging the light.
5. **Attach Light Body:** Once the adhesive is fully cured, snap the LED pool light panel onto the solar panel unit. Ensure the side locking clips fully pop out to secure a stable connection.
6. **Adjust Length:** The light's length is adjustable from 11.5 inches to 13.5 inches. Adjust the light unit's height to optimize lighting and accommodate different water levels without compromising water conservation.

Easy Installation

1. Surface Cleaning

Clean the installation surface thoroughly to remove dust and moisture.

2. Evenly apply the adhesive

3. Attach the Solar Panel

Press the solar panel firmly onto the pool edge for about **5** minutes. Allow it to set for **24-48** hours.

4. Snap the light body onto the solar panel

5. Make sure the side locking clips fully pop out



Image: Step-by-step visual guide for installing the solar pool light, including surface cleaning, adhesive application, attaching the solar panel, and securing the light body.

Your browser does not support the video tag.

Video: A demonstration of the installation process for the KARTOOSH Solar Inground Pool Light, showing how to prepare the surface, apply adhesive, attach the solar panel, and secure the light unit.

6. OPERATING INSTRUCTIONS

6.1. Charging

- **Solar Charging:** The integrated solar panel charges the 10000mAh battery during the day when exposed to direct sunlight. Ensure the solar panel is not obstructed for optimal charging efficiency.
- **USB-C Backup Charging:** For cloudy days, indoor use, or when solar charging is insufficient, use the included USB-C cable and a 2A adapter (not included) to charge the light. The light can glow after 3-4 hours of USB-C charging.

Type-C Charging

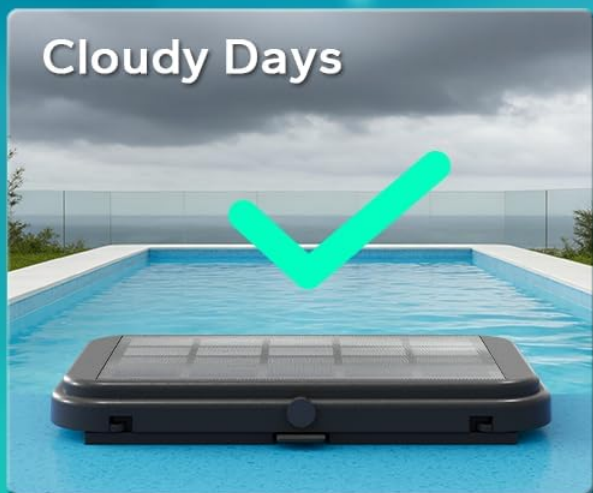
Keeping Glow in Cloudy day or Indoor Pool.

Packed with **2A** adapter &
Type-C cable.

Glowing your pool after
3-4H charging.



Cloudy Days



Indoor Pools

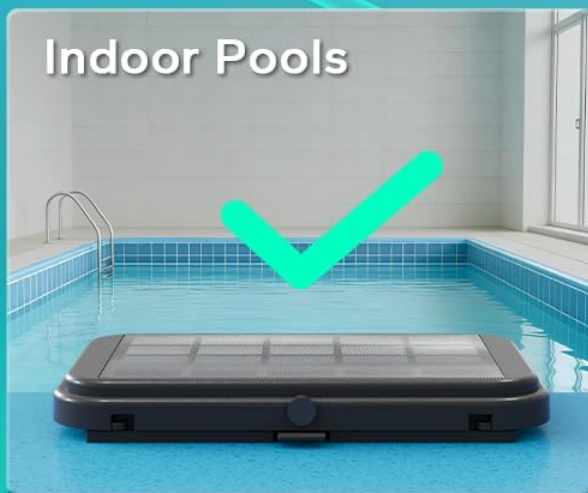


Image: Close-up of the KARTOOSH Solar Pool Light showing the USB-C charging port, illustrating its use for backup charging on cloudy days or for indoor pools.

Daytime Charge Nighttime Glow

1-3H Quick-timer Options,
with **4H** Auto-off Standard.



Image: Visual representation of the solar light charging during the day and glowing at night, with timer options (1H, 2H, 3H, 4H auto-off).

6.2. Light Sensing Technology

The light features intelligent light sensing. It will automatically activate at dusk and turn off at dawn to conserve energy.

6.3. Remote Control Operation

Use the included remote control to manage the light settings:

- **Power On/Off:** Press the power button to turn the light on or off.
- **Color Selection:** Choose from 29 vibrant colors to set the desired ambiance.
- **Lighting Modes:** Select one of the 4 dynamic lighting modes:
 - **Flash:** Rapid color changes.
 - **Strobe:** Quick flashes of a single color.
 - **Smooth:** Gradual transitions between colors.
 - **Fade:** Slow, gentle fading between colors.
- **Brightness Adjustment:** Adjust the brightness level to suit your preference.
- **Timer Settings:** Set the auto-shutoff timer for 1, 2, or 3 hours. The default auto-shutoff is 4 hours if no specific timer is set.

Pool Nights, Bright Delights



29-Color
LED



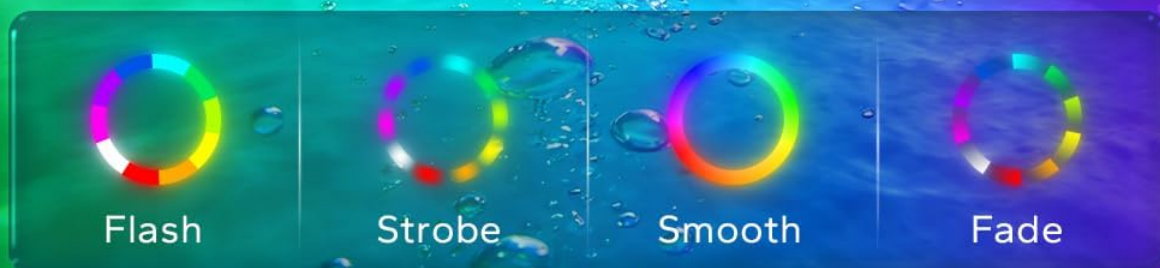
4 Lighting
Modes



Steppless
Dimming



Timer



Where Fun Meets Perfect Illumination.

Image: Display of the various color options and dynamic lighting modes (Flash, Strobe, Smooth, Fade) available with the KARTOOSH Solar Pool Light.

7. MAINTENANCE

- **Cleaning:** Periodically clean the solar panel surface with a soft, damp cloth to ensure maximum solar charging

efficiency. Remove any debris or buildup.

- **Waterproof Integrity:** Regularly inspect the light for any signs of damage to the sealed lamp chamber. Do not use if the seal appears compromised.
- **Battery Care:** While the battery is designed for longevity, prolonged periods of non-use in a discharged state can affect its lifespan. If storing the light for an extended period, ensure it is fully charged.
- **Adhesive Check:** Occasionally check the adhesion of the mounting base to the pool edge to ensure it remains secure.

No More Water Leaks

Fully sealed design blocks water from entering the light chamber.

KARTOOSH's

Sealed Light Chamber



OTHERS



Image: Diagram illustrating the fully sealed design of the KARTOOSH Solar Pool Light's LED chamber, preventing water leaks and ensuring durability.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on at night.	Insufficient solar charge. Solar panel is dirty or obstructed. Battery is depleted.	Ensure the solar panel is clean and receives direct sunlight for at least 6-8 hours. Use USB-C backup charging if solar conditions are poor.
Light is dim or flickers.	Low battery charge.	Allow the light to charge fully via solar power or USB-C.
Remote control is not working.	Remote battery is dead. Obstruction between remote and light.	Replace the remote control battery. Ensure there is a clear line of sight to the light unit.
Water inside the light unit.	Damage to the sealed lamp chamber. Improper installation.	Discontinue use immediately. Contact customer support for assistance. Ensure proper adhesive curing during installation.

9. WARRANTY AND SUPPORT

KARTOOSH products are designed for quality and reliability. For warranty information, technical support, or any questions regarding your product, please refer to the contact information provided on the product packaging or visit the official KARTOOSH website.

Please have your model number (ZM445) and purchase date available when contacting support.

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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.

Name

Anonymous

Email

you@example.com

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