

SOLLA YM-002

SOLLA 100W LED Flood Light

MODEL YM-002 INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your SOLLA 100W LED Flood Light, Model YM-002. Please read these instructions thoroughly before installation and retain this manual for future reference.

The SOLLA 100W LED Flood Light is designed for various outdoor and indoor lighting applications, including yards, gardens, garages, rooftops, patios, playgrounds, courts, and parking lots. It features high brightness, energy efficiency, and durable construction.

2. Safety Information

WARNING: To prevent electric shock, fire, or injury, always follow basic safety precautions when installing or servicing this fixture.

- Installation must be performed by a qualified electrician or service person in accordance with national and local electrical codes.
- Ensure the power supply is disconnected before installation, maintenance, or cleaning.
- Do not operate the fixture with a damaged cord or plug.
- Do not modify the fixture. Any modifications may void the warranty and create safety hazards.
- This fixture is designed for hard-wiring. It does not include a plug.
- Avoid direct eye exposure to the light source when the fixture is operating.
- Ensure the mounting surface can support the weight of the fixture.

3. Product Overview

3.1 Key Features

- Long Lifetime:** Aluminum alloy housing provides high thermal conductivity, ensuring efficient heat dissipation and a lifespan of over 50,000 hours.
- High Brightness:** Delivers 10000 lumens with a luminous efficacy of 100 lm/w, offering significant energy savings compared to traditional lighting.
- Lightning & Water Resistance:** IP65 rated for protection against dust and water jets, and includes an SPD

(Surge Protective Device) for enhanced protection during thunderstorms.

- **Sturdiness & Durability:** Constructed with a robust metal bracket and tempered glass, designed for high-temperature resistance (up to 120°C) and anti-aging performance.
- **Easy Installation:** Features an adjustable bracket for flexible mounting on various surfaces.

3.2 Components

The SOLLA 100W LED Flood Light consists of the following main components:

- LED Light Panel: Contains the high-brightness LED chips.
- Tempered Glass Cover: Protects the LED panel.
- Aluminum Housing: Provides structural integrity and heat dissipation.
- Adjustable Mounting Bracket: Allows for flexible positioning.
- Waterproof Joint and Wiring: For secure electrical connection.



Figure 1: Front view of the SOLLA 100W LED Flood Light, showcasing its rectangular design, LED array, and "SOLLA 100W IP66" branding.

4. Specifications

Feature	Specification
Brand	SOLLA
Model Number	YM-002
Wattage	100 Watts

Feature	Specification
Brightness	10000 Lumens
Light Color	3000K Warm White
Voltage	110 Volts
Material	Aluminum, Tempered Glass
Product Dimensions (L x W x H)	12.6" x 1.73" x 8.03" (32cm x 4.39cm x 20.39cm)
Item Weight	3.69 pounds
IP Rating	IP65 (Waterproof)
Installation Type	Wall mount, Eave/Soffit mount
Indoor/Outdoor Usage	Indoor/Outdoor
Light Source Type	LED

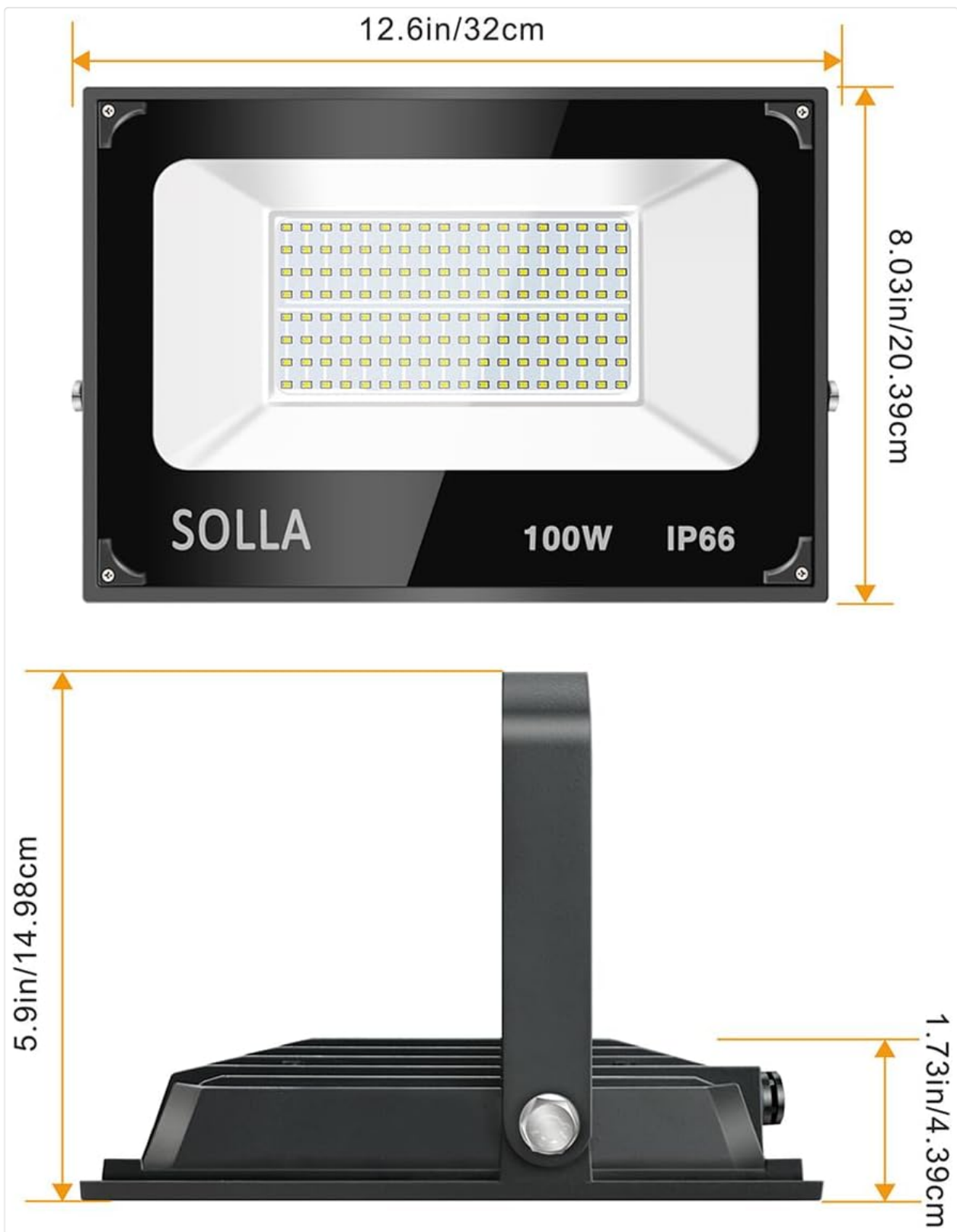


Figure 2: Diagram illustrating the dimensions of the SOLLA 100W LED Flood Light, including length (12.6 inches / 32 cm), width (1.73 inches / 4.39 cm), and height (8.03 inches / 20.39 cm) with the bracket.

5. Installation

Important: Ensure power is OFF at the circuit breaker before beginning installation.

5.1 Mounting Location

Choose a suitable mounting location that provides adequate illumination for the desired area. The adjustable bracket allows for various mounting orientations:

- **Wall Mounting:** Secure the bracket directly to a wall.
- **Floor Mounting:** Install the fixture on a flat ground surface.
- **Ceiling Mounting:** Attach the fixture to an overhead structure or eave/soffit.



Figure 3: Illustration of different mounting options: wall, floor, and ceiling mounting.

5.2 Mounting Steps

1. Mark the desired mounting holes on the surface using the fixture's bracket as a template.
2. Drill appropriate holes for the mounting screws (not included).
3. Secure the mounting bracket to the surface using suitable screws and anchors.
4. Attach the flood light fixture to the secured bracket.
5. Adjust the angle of the flood light to the desired position and tighten the bracket screws to secure it. The bracket allows for 180-degree adjustment.

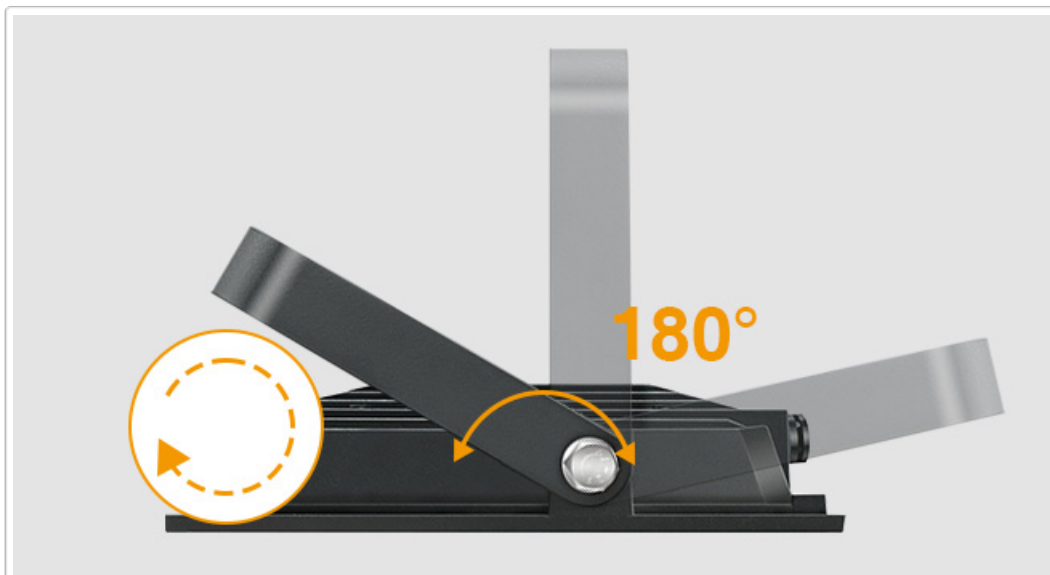


Figure 4: An illustration demonstrating the 180-degree adjustable mounting bracket, allowing for flexible positioning and aiming of the flood light.

5.3 Electrical Wiring

This flood light requires hard-wiring to a 110V AC power source. The fixture comes with three wires:

- **Black Wire:** Live (L)
- **White Wire:** Neutral (N)

- **Green/Yellow Wire:** Earth/Ground (E)

Connect these wires to the corresponding wires from your power supply using appropriate waterproof wire connectors. Ensure all connections are secure and insulated.



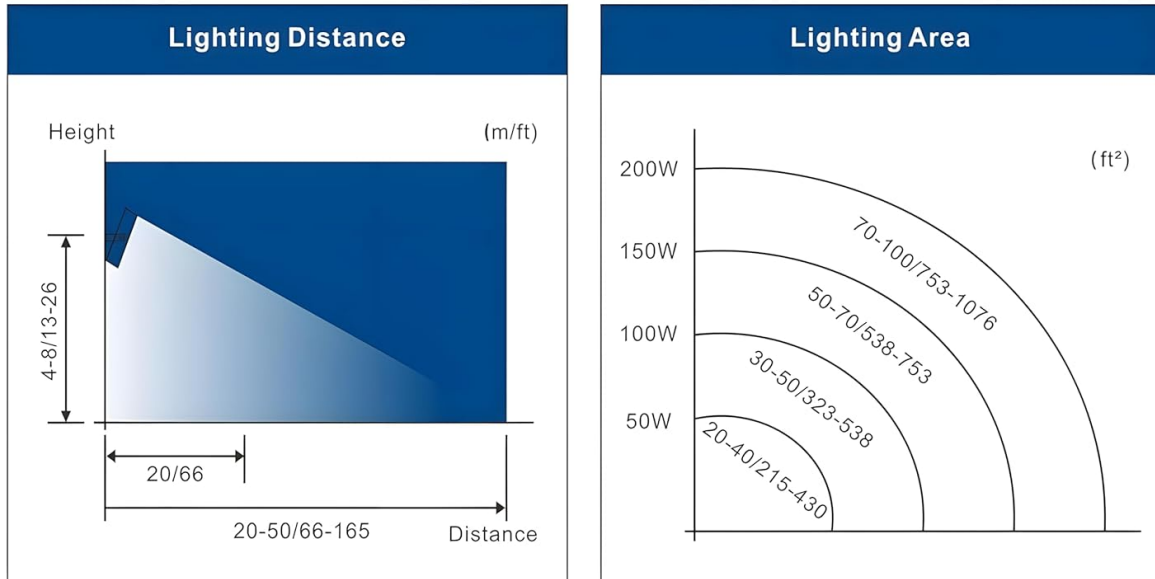
Figure 5: An illustration detailing the hard-wiring connections (Live, Neutral, Earth wires) and the approximate wire length of 39.37 inches (100 cm).

5.4 Irradiation Distance and Area

Refer to the table below for recommended mounting heights and effective lighting distances/areas for the 100W model.

LED flood light irradiation distance table (100W)

NOT Dimmable



Wattage	Suggest Mounting Height (m/ft)	Best Irradiation Distance (m/ft)	Accept Irradiation Distance (m/ft)	Irradiation Area (m²/ft²)
50W	2-4/6-13	10/33	15-35/50-115	20-40/215-430
100W	4-8/13-26	20/66	20-50/66-165	30-50/323-538
150W	5-11/16-36	30/98	30-60/98-197	50-70/538-753
200W	6-13/20-43	45/148	50-70/165-230	70-100/753-1076

Figure 6: A table and diagram showing recommended mounting heights, best irradiation distances, and lighting areas for different wattage SOLLA flood lights, specifically highlighting the 100W model's performance.

6. Operation

Once properly installed and wired, the SOLLA 100W LED Flood Light operates by switching on the connected power supply. There are no complex controls on the fixture itself; it functions as a direct on/off light source.



Figure 7: Example of Solla LED Flood Lights illuminating a house exterior at night, demonstrating their effective coverage.

7. Maintenance

The Solla 100W LED Flood Light is designed for minimal maintenance. However, regular checks can ensure optimal performance and longevity.

- **Cleaning:** Periodically clean the tempered glass cover with a soft, damp cloth to remove dirt, dust, or debris that may obstruct light output. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the fixture for any signs of damage, loose connections, or wear on the wiring. Ensure the mounting bracket remains securely fastened.
- **Heat Dissipation:** Ensure that the heat dissipation fins on the back of the fixture are not obstructed by debris or insulation, as this can affect performance and lifespan.

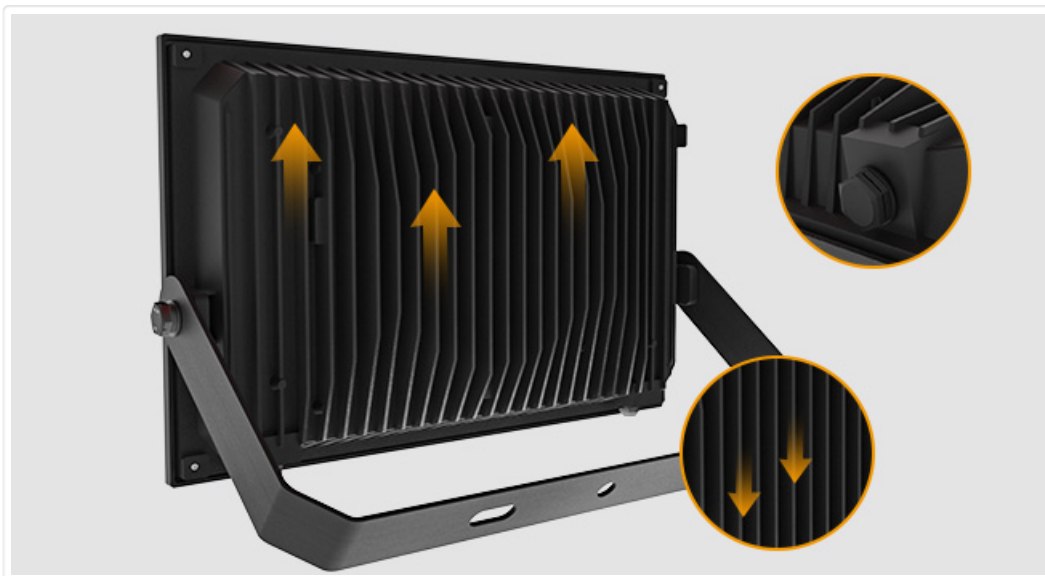


Figure 8: A detailed view of the rear of the flood light, emphasizing the aluminum heat dissipation fins designed to efficiently manage heat and extend the product's lifespan.

8. Troubleshooting

If you encounter issues with your SOLLA 100W LED Flood Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on	No power supply; Loose wiring connection; Faulty switch/breaker	Check power supply at the source; Verify all wiring connections are secure; Test the switch or circuit breaker.
Light flickers or dims	Unstable power supply; Loose wiring; Overheating	Ensure stable power; Check wiring connections; Ensure adequate ventilation around the fixture.
Reduced light output	Dirt or debris on lens; Overheating	Clean the tempered glass cover; Ensure proper heat dissipation.
Water ingress	Improper installation of waterproof joint; Damaged housing/seal	Re-check waterproof connections during installation; Inspect for physical damage. If damaged, replace the fixture.

If the problem persists after attempting these solutions, contact customer support.


9. Warranty and Support

SOLLA products are manufactured to high-quality standards. This product is covered by a standard warranty. Please refer to your purchase documentation or the SOLLA official website for specific warranty terms and conditions.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact SOLLA customer support through the retailer where the product was purchased or via the official SOLLA website.

SOLLA Website: [Visit the SOLLA Store on Amazon](#)

Related Documents

<div data-bbox="185 336 296 360"><p>LED Motion Sensing Security Light</p></div> <div data-bbox="142 412 287 479"></div> <div data-bbox="135 526 292 542"><p>Read this manual for future reference. Read the instructions carefully prior to installation.</p></div> <div data-bbox="130 560 296 568"><p>© 2015 Solla LLC. All rights reserved. Solla LLC is a registered trademark of Solla LLC.</p></div>	<div data-bbox="341 353 1461 423"><p>SOLLA LED Motion Sensing Security Light - Outdoor Floodlight with Motion Detection and Dusk to Dawn</p></div> <div data-bbox="341 436 1461 546"><p>Comprehensive user manual for the SOLLA LED Motion Sensing Security Light. Covers safety instructions, specifications, installation, operation, and custom settings for outdoor security lighting. Features include adjustable detection range, dimmable brightness, and IP65 rating.</p></div>
---	---