


Certified LED Lights®

Product Data Sheet
Solar LED Light



Product Overview

A 100W solar LED light system built around a high-capacity 32135 LiFePO₄ battery (3.2V, 105Ah, 336Wh) offers a reliable and energy-efficient lighting solution for outdoor and off-grid applications. The integrated 100W / 6V monocrystalline silicon solar panels provide excellent conversion efficiency, ensuring consistent charging performance even under less-than-ideal sunlight conditions.

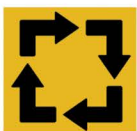
Delivering a powerful 9000 lumens of brightness at a crisp 5700K color temperature, the light closely mimics natural daylight, making it ideal for security, pathways, parking areas, and large outdoor spaces.

Its wide 150° by 65° beam angle ensures broad and even light distribution, minimizing dark spots while maximizing coverage.

The durable aluminum body enhances heat dissipation and provides robust resistance against environmental elements, contributing to a longer lifespan and stable performance. Combined, these components create a high-performance, low-maintenance lighting system designed for efficiency, durability, and dependable illumination.

Suitable application: ramp lighting, suitable for street lighting, boat dock, lighting sidewalk, lighting remote area lighting, roadway lighting, farm & ranch lighting, fence lighting, campus lighting pathway, lighting park lighting, garden lighting.

Applications



Perimeter



Landscaping



General area



Pathways

- * Wattage: 100W
- * Lumens: 9000 Lumens
- * Color temperature: 5700K
- * The lamp use integrated aluminum structure design, with best heat dissipation and long life time
- * The solar panel is made of Monocrystalline silicon, with a higher conversion efficiency, up to 24%, and a service life of up to 2 years
- * It has functions of light control, time control, dimming, intelligent power saving
- * Solar controller built-in lightning protection module
- * Using the most advanced MPPT tracking control technology to improve system efficiency and reduce costs
- * IP 66 rated
- * Using LUXEON 3030 lamp beads, the whole lighting effect is up to 90 lm/W
- * Pole Diameter: 2-3/8" to 3"
- * Installation height : 20' to 26'
- * Grey durable aluminum alloy housing with powder-coated finish

Product Warranty



Highlights and Certifications



IP66 Rated



ROHS
Compliant

Key Specifications

Three control model:

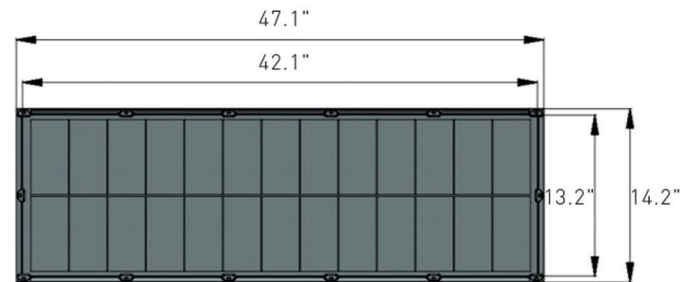
This solar LED light integrates three intelligent control modes: 1- time control, 2- light sensor control, and 3- motion sensor control to maximize efficiency and user convenience. The time control function can be programmed into five distinct operating periods, allowing for more customized and energy-efficient lighting schedules.

Equipped with an advanced 32135 LiFePO₄ battery, the system supports approximately 2,200 charge and discharge cycles, delivering a service life of over two years with stable performance.

The light sensor control ensures automatic operation: at dusk, when the solar panel voltage drops below 3V, the lamp switches on automatically, providing seamless, hands-free functionality and enabling reliable, year-round operation.

Additionally, the motion sensor control introduces an energy-saving dynamic mode—when movement is detected, the light instantly reaches 100% brightness, and when no motion is present, it dims to a low-power state with adjustable brightness levels ranging from 10% to 100%. This intelligent combination of controls ensures continuous illumination, optimized energy usage, and extended system lifespan.

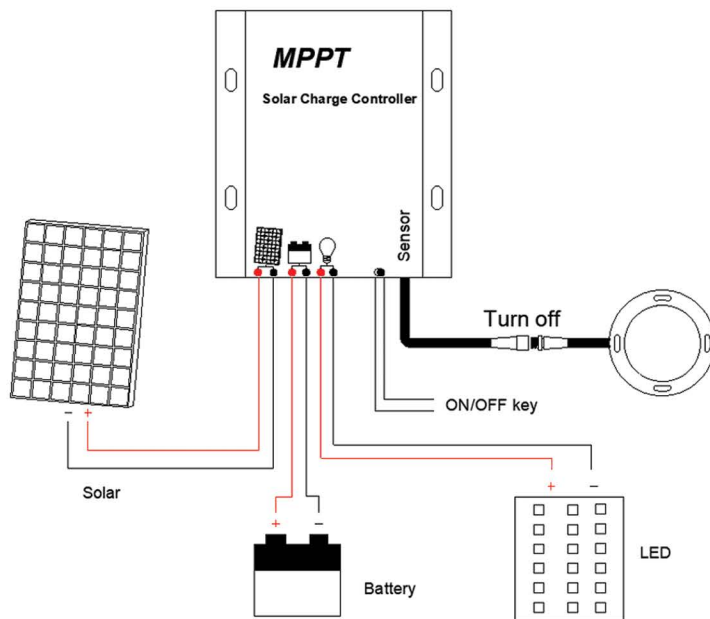
Dimensions



Ordering Guide:

PART #	Color Temp	Lumens	Lumen/watt	Wattage	Voltage
SLS-100	5,700K	9,000	90	100	3.2V, 105Ah, delivering 336Wh

Internal Wiring Diagram



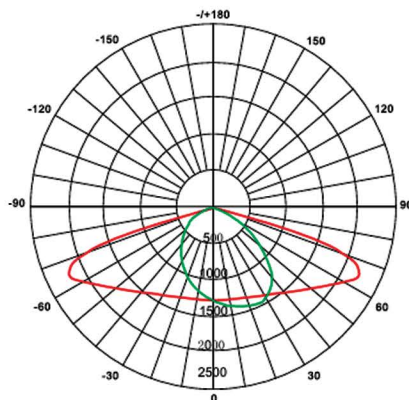
Warnings:

Do not install the solar LED light in high-temperature, enclosed, or poorly ventilated environments, as this can affect performance and lifespan.

Select an installation location free from obstructions such as trees or buildings, ensuring the solar panel receives full, direct sunlight from all directions.

If the product is stored for an extended period, perform a charge and discharge cycle every three months to maintain battery health. In case of malfunction or damage, always consult a qualified professional for inspection and repair to ensure safe and proper handling.

Photometric Data



AVERAGE BEAM ANGLE(50%): 130°

Test Number: SLS100W
Lumens: 9000 LM
Test Number: 100W
Test Number: 5700K

UNIT:CD

— C0/180, 157
— C30/210, 128.2
— C60/240, 87.5
— C90/270, 79.9