KIRITO



# SL02 G2.0 Solaris

## Integrated Solar Street Light

Flip-top design, built-in microwave sensor and timer dimming, offering standard and premium version options to fully satisfy your needs and save the costs.

10W-60W

Up to 200lm/W

IP66

0°C to + 50°C

LifePO4

Microwave

Timer dim

Energy saving





# **Global** Trends

## Energy Development

Leveraging advanced PV tech and efficient storage, solar lighting maximizes renewable energy use, cuts grid dependence, and supports distributed systems under current policy.

## Carbon Control

Zero emissions during operation and eco materials in production. Fully aligned with dual-carbon goals and global low-carbon transition.

## Cost Efficiency

Lower costs from tech upgrades and mass production. Cable-free, low-maintenance design reduces upfront and long-term expenses, shortening ROI and boosting competitiveness.

# All-in-one Design

SL02 G2.0 is an elegant integrated streetlight solution that helps you achieve long-term sustainability goals while significantly reducing costs and energy consumption. It delivers comprehensive upgrades from installation and operation to maintenance.

Our grid-tied hybrid solution offers dual advantages: it can operate connected to the grid while retaining solar energy savings, or function completely off-grid and independently, flexibly adapting to various scenarios.



# LiFePO4 Battery

The SL02 is equipped with lithium iron phosphate batteries (LiFePO4), offering superior lifespan, safety, and performance for solar applications. These batteries achieve over 2000 cycles at 80% depth of discharge (D.O.D.), ensuring reliable operation of the lighting fixture.

**2000** Cycles

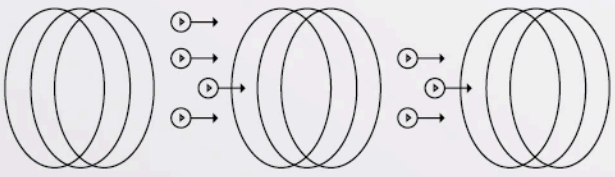
**80%** Depth

3 YEARS WARRANTY



# BMS System

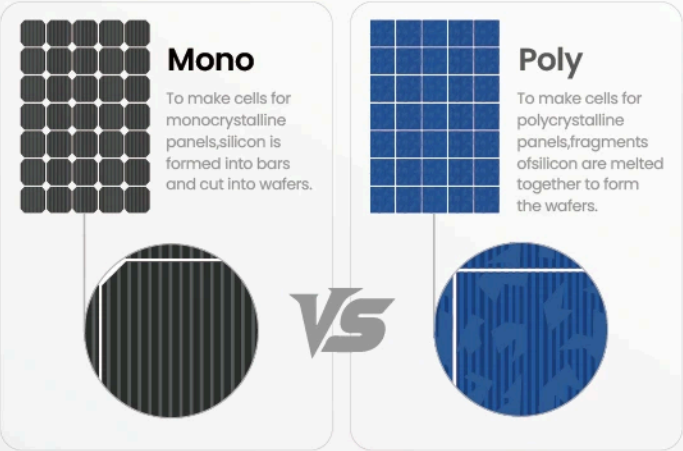
Our batteries integrate an intelligent Battery Management System (BMS) that precisely controls overcharge, over-discharge, and temperature protection, ensuring an ultra-long cycle life and stable fixture operation.



| | LiFePO4 | Lead Acid | Nimh | Lithium Ion |
|---|---|---|---|---|
| Lifetime & cycles at 80% DOD | 2000 cycles | 500 cycles | 500 cycles | 800 cycles |
| Charging temperature range without capacity loss | 0~50° | -20~60° | 0~70° | 0~45° |

# Mono-crystalline Solar Panel

High-efficiency monocrystalline silicon solar panels with a photoelectric conversion rate of 20%–23%, which is 3%–5% higher than conventional polycrystalline panels. Resistant to high and low temperatures, UV radiation, and salt spray corrosion, they provide lasting, stable, and reliable power for solar street lights.

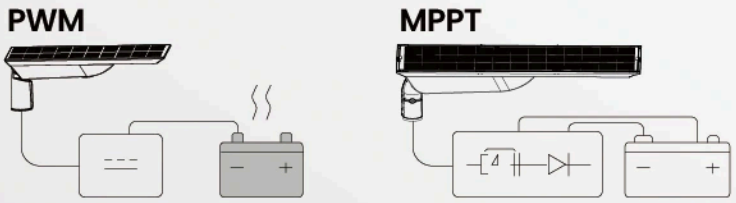


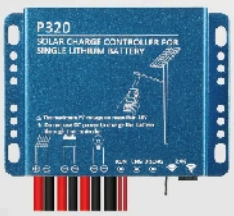




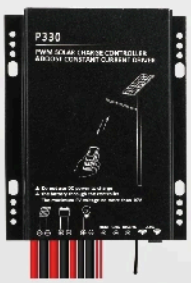
# MPPT or PWM Options

PWM controller for standard version;
MPPT controller for premium version.




SL02 G2.0 - 010 / 020
**PWM/3.2V**



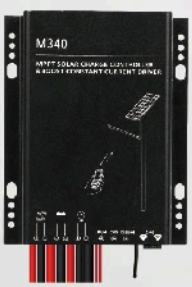

SL02 G2.0 - 030
**PWM/3.2V**




SL02 G2.0 - 040
**PWM/12V**




SL02 G2.0 - 010/020/030/050/060 (B)
**MPPT/12.8V**




SL02 G2.0 - 040 (B)
**MPPT/3.2V**

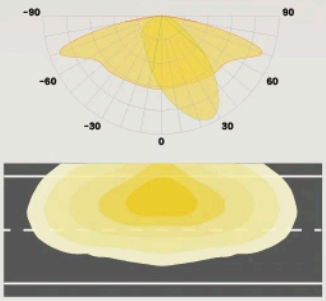
# High Per formance

Lighting efficiency reaches up to 200 lm/W, delivering higher brightness with lower power consumption. This reduces system requirements, extends battery life, and prolongs the lifespan of the luminaire.

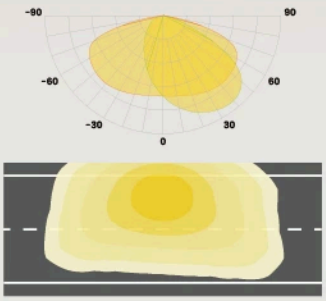



# Multiple Distribution Options

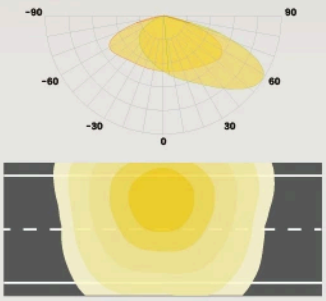
Precise light distribution design with different beam angles, flexibly adaptable to diverse application requirements.



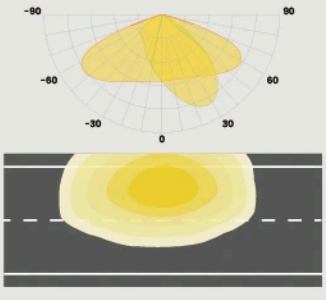

Type II Medium (58x162° Tilt25°)
R08802



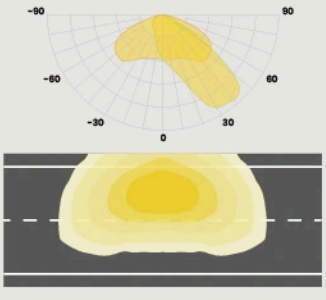

Type III Medium (79x152° Tilt40°)
R08803



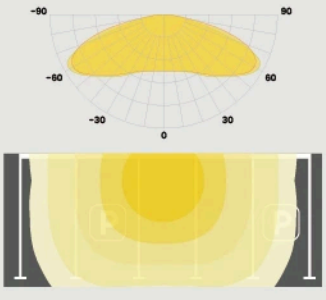

Type IV very Short(67x150° Tilt60°)
R08804




Type II Short (64x145° Tilt30°)
U16602




Type III short (44x147° Tilt45°)
U16603




Type VS 158°
U16605

# Precision Design



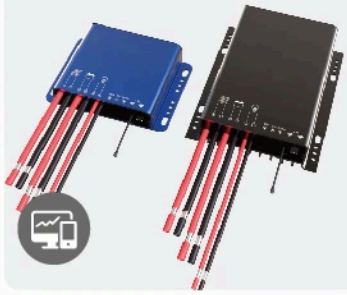
Housing with integrated high-conversion-rate solar panels.



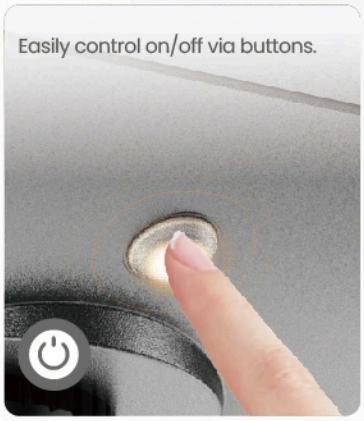
Flip-top design with anti-loss screws for easy maintenance.



MPPT or PWM charge controller options.



Easily control on/off via buttons.



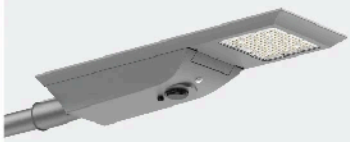
Built-in microwave motion sensor and timer dimming.



±15° adjustable mounting spigot.




All-in-one design, less transportation cost and easy installation.

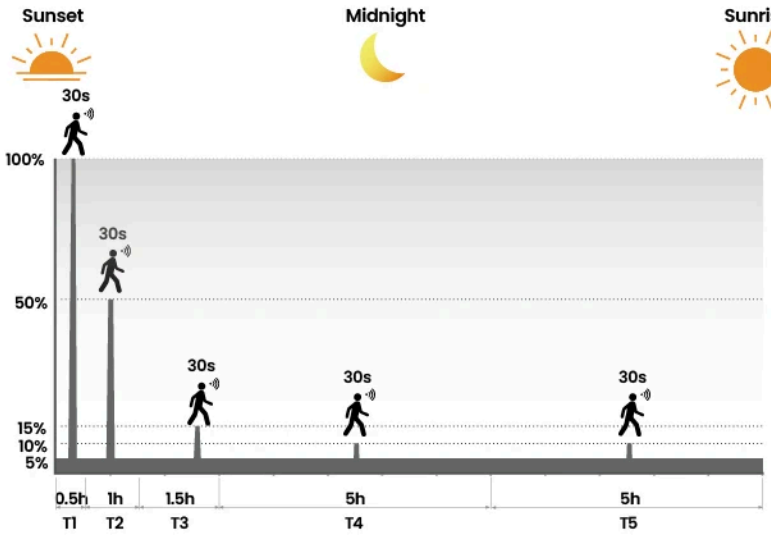


The lamp body supports adjustable angle for optimal lighting.



# Working Mode

Note: Factory settings can also be set in batches according to different needs.



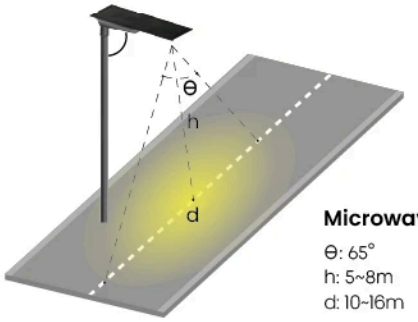

## Default Working Mode (Intelligent Mode)

| | Time 1 | Time 2 | Time 3 | Time 4 | Time 5 |
|---|---|---|---|---|---|
| Working hours | 0.5h | 1h | 1.5h | 5h | 5h |
| Not detected | 100% | 5% | 5% | 5% | 5% |
| Detected | 100% | 50% | 15% | 10% | 10% |

Light up for 30 seconds when detected

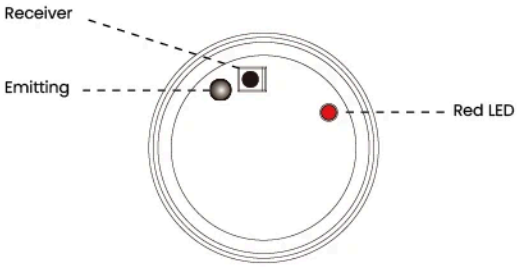
## Microwave motion sensor
(Solar power)

Sensing distance




**Microwave**
θ: 65°
h: 5~8m
d: 10~16m

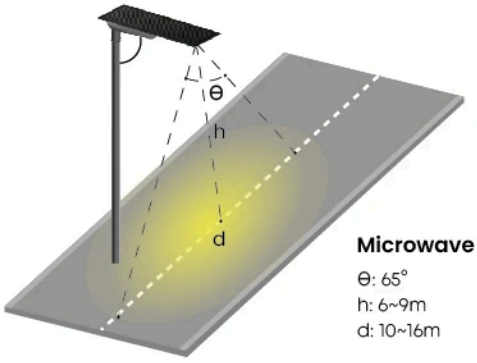
Microwave sensor indicator status (Red LED)




| Controller Status | Indicator status |
|---|---|
| Normal charging | 1s cycle flashing |
| Normal working | ON |
| Alarm message exists | 0.5s cycle flashing |
| Machine standby | 2s cycle flashing |

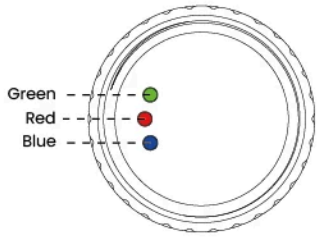
## Microwave motion sensor
(Hybrid solar power)

Sensing distance




**Microwave**
θ: 65°
h: 6~9m
d: 10~16m

Microwave sensor indicator status




| Indicator status | Battery Status |
|---|---|
| Green | Charging status |
| Red | Work status |
| Blue | Load status |

# ADDITIONAL PRODUCT SPECIFICATIONS

| | |
|---|---|
| Series Code | SL02 |
| Power | 10W, 20W, 30W, 40W, 50W, 60W |
| Efficacy | 200lm/W |
| CCT | 3000K, 4000K, 5000K |
| CRI(Ra) | 70, 80 |
| IP Rating | IP66 |
| IK Rating | IK08 |
| Mounting Option | Post Top, Side Entry |
| Warranty | Battery: 3 Years, Other accessories: 5 Years |
| Operating Temperature | 0°C to + 50°C |

Solaris is an all-in-one solar street light with a high efficiency of up to 200 lm/W. Its flip-top design makes it easy to open the cover and replace the battery. The built-in microwave motion sensor and timer dimming help control the light smartly and save energy. There are two versions available: the standard version with PWM controller and the premium version with MPPT controller, fully meeting your needs.

# PRODUCT VIEWS



VIEW 1



VIEW 2



VIEW 3



VIEW 4

# PRODUCT VIEWS



VIEW 5