KIRITO



SL02 G3.0 Solaris

Integrated solar street light with charging port

Featuring a flip-top design, it includes a built-in microwave sensor and a timer-controlled dimming function, and is equipped with a charging port for convenient regular maintenance, preventing deep discharge and extending battery life.

- 30W-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 G3.0 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.



Charging Port



Extend Battery Life

Easily perform regular charging for inventory or idle lights to prevent battery damage from power depletion.

Simplify Inventory Management

New lights can be fully charged and ready for use quickly, allowing flexible stock maintenance and ensuring lights are “ready to shine whenever needed”.

Ensure Reliable Operation

During rainy weather or insufficient sunlight, connect an external power source to quickly recharge the battery and keep the lights running continuously.

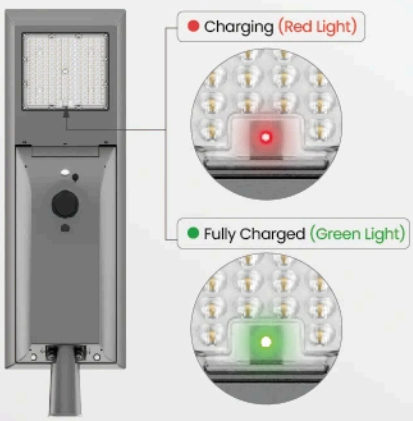
Plug in the adapter to charging port

The device starts working after the plug is connected to the mains power.



Cable lengths:

Cable 1: 1.2 m
Cable 2: 1.2 m



LiFePO4 Battery

The SL02 G3.0 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



Intelligent BMS with 5-Tier Protection

Integrated with an intelligent BMS, our solar lights continuously monitor battery status in real-time. By offering 5-tier protection—including overcharge, over-discharge, overcurrent, short circuit, and overtemperature protection—it ensures optimal efficiency and turns sunlight into safe, worry-free power under various environments.

	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°

Overcharge

Overdischarge

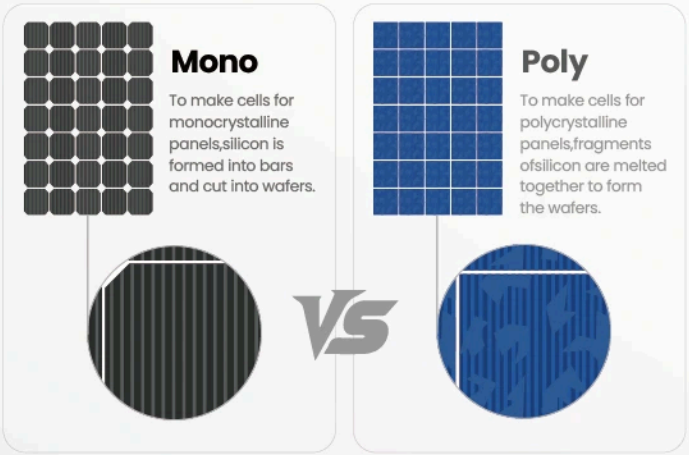
Overcurrent

Short Circuit

Overtemperature

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.

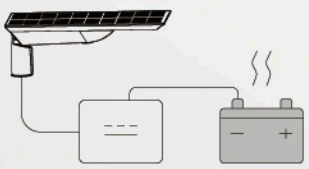




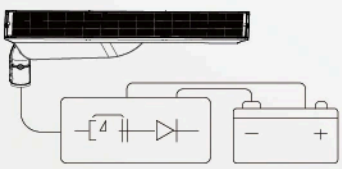
MPPT or PWM Options

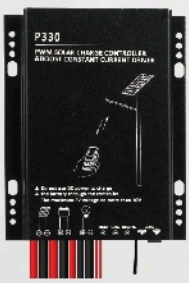
PWM controller for standard version;
MPPT controller for premium version.

PWM



MPPT





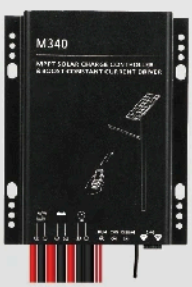
SL02 G3.0 - 030
PWM/3.2V



SL02 G3.0 - 040
PWM/12.8V



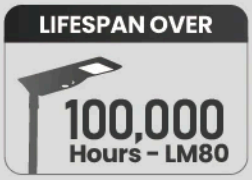
SL02 G3.0 - 030/050/060 B
MPPT/12.8V



SL02 G3.0 - 040 B
MPPT/3.2V

High Performance

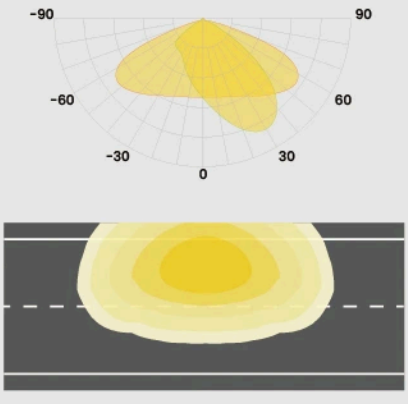
Lighting efficiency reaches up to 200 lm/W, delivering higher brightness with lower power consumption. This reduces system requirements, extends battery life, and prolongs the lifespan of the luminaire.



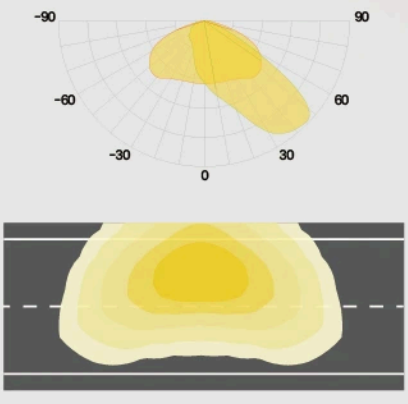


Multiple Distribution Options

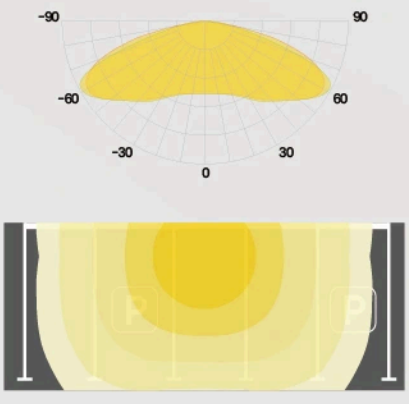
Precise light distribution design with different beam angles, flexibly adaptable to diverse application requirements.



Type II Short (64x145° Tilt30°) U16602



Type III short (44x147° Tilt45°) U16603

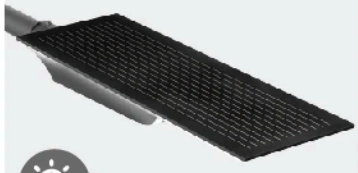


Type VS 158° U16605

Precision Design



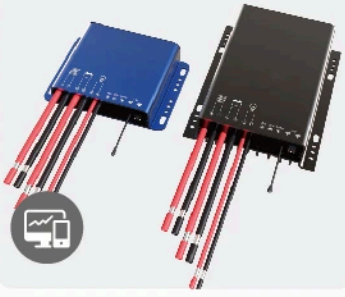
Housing with integrated high-conversion-rate solar panels.



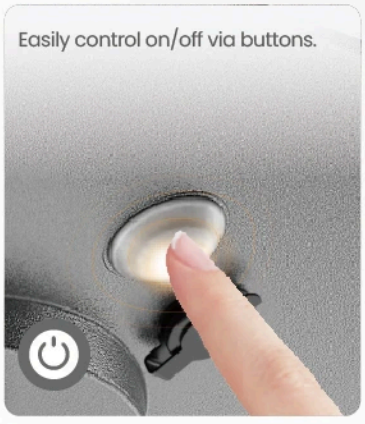
Flip-top design with anti-loss screws for easy maintenance.



MPPT or PWM charge controller options.



Easily control on/off via buttons.



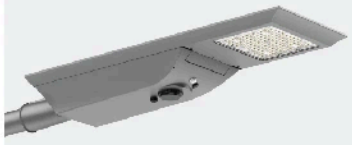
Built-in microwave motion sensor and timer dimming.



±15° adjustable mounting spigot.



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



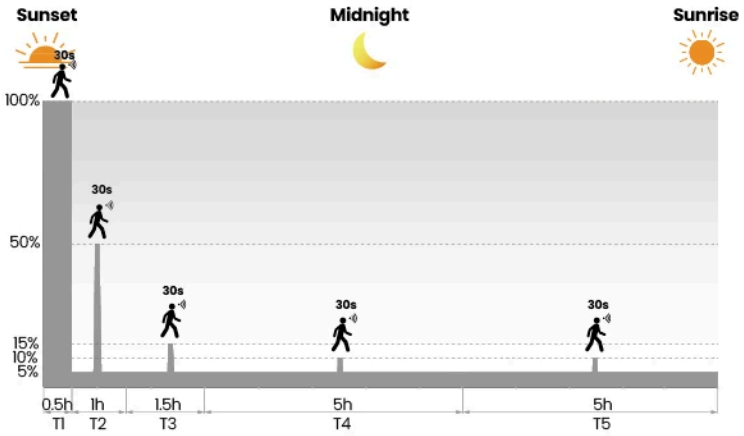
The lamp body supports adjustable angle for optimal lighting.



Working Mode

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

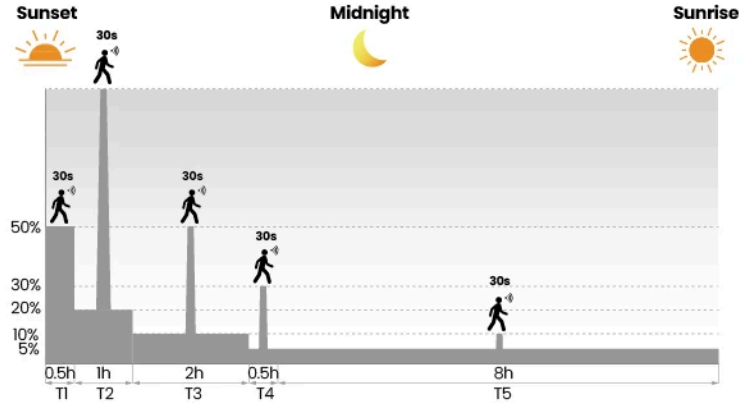
Light Delay 30s:
When motion is detected, the light operates at the Detected brightness level.
When no motion is detected, after 30 seconds, the light switches to the Not detected brightness level.



Mode A (Default Working 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%

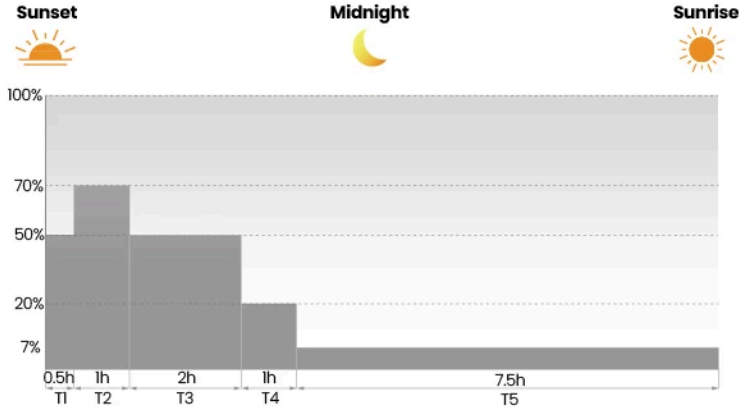
Runtime:
Standard version operates for 2-3 days on a full charge
Premium version operates for 3-4 days on a full charge



Mode B

	Time 1	Time 2	Time 3	Time 4	Time 5
Working hours	0.5h	1h	1.5h	0.5h	8h
Not detected	50%	20%	10%	5%	5%
Detected	50%	100%	50%	30%	10%

Runtime:
Standard version operates for 1.5-2.5 days on a full charge
Premium version operates for 3-4 days on a full charge

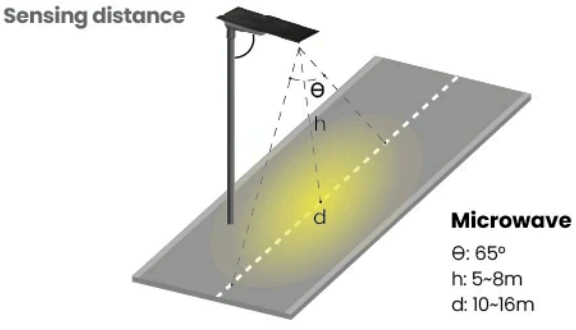


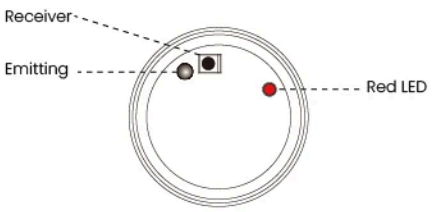
Mode C

	Time 1	Time 2	Time 3	Time 4	Time 5
Working hours	0.5h	1h	2h	1h	7.5h
Brightness level	50%	70%	50%	20%	7%

Runtime:
Standard version operates for 1.5-2 days on a full charge
Premium version operates for 2-3 days on a full charge

Microwave motion sensor (Solar power)

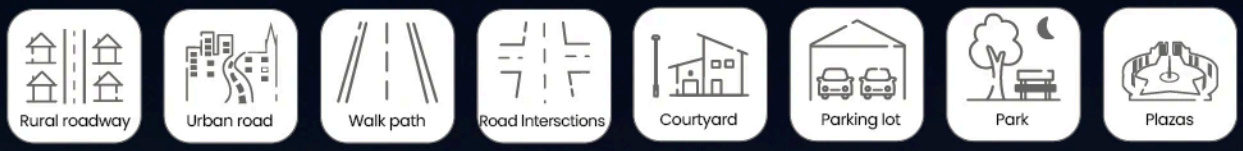




Controller Status	Indicator status
Normal charging	1s cycle flashing
Normal working	ON
Alarm message exists	0.5s cycle flashing
Machine standby	2s cycle flashing

Applications

SL02 G3.0 with high performance and excellent design, it can be used for various road lighting.





ADDITIONAL PRODUCT SPECIFICATIONS

Series Code	SL02 G3.0
Power	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	3 years for battery, 5 years for other parts
Operating Temperature	0°C to + 50°C

The SL02 G3.0 offers multiple power options ranging from 30W to 60W. It features excellent light efficiency of up to 200 lm/W and is equipped with a microwave motion sensor. It also includes a charging port to facilitate regular maintenance, preventing deep discharge and prolonging battery lifespan.

PRODUCT VIEWS



VIEW 1



VIEW 2



VIEW 3



VIEW 4

PRODUCT VIEWS



VIEW 5