

LUXINT

# All In One Solar LED Street Light

Version date: 09.2025

UP TO  
**10915**  
Lumens



  
>250lm/W

  
Timer

  
Light Dimmer

CE | RoHS | IP65 | IK08

  
Efficient Solar Panel

  
Superior Outdoor LED

  
Lightweight Design

  
Battery Management System

  
High Efficiency Controller

  
IP65 Waterproof

## SPECIFICATION

### ASSL01-M All-in-one Solar Street Light

- Integrated solar street light with lithium ferro phosphate battery.
- Solar panel and MPPT charge controller built into the luminaire.
- Pressure stainless steel material for sturdiness and long life.
- Specially designed pole mounting bracket allows different tilt angles, lateral and pole top mounting.

### Features

- High luminous efficacy of > 250 lm/Watt to maximize battery performance.
- Factory set dimming profile along with microwave sensor for run time maximization.
- Dimming can be configured at site with the help of configuration remote controller.
- Self diagnostic feature with LED Indicators.

### Product data

#### LED Light Head

Luminous flux	≥10915lm
Peak LED power	40W
CRI	>70
CCT range (dual color)	3000K~6000K
LED lifetime	>100,000 hours
Light dimension	1025*335*253mm
Warranty	5 years

#### Solar Panel

Peak Power	70W
Max. voltage	18V
Solar cells efficiency	>22.3%
Technology	Monocrystalline silicon panel
Operating Temperature	-40 °C ~ 85 °C
Lifetime	>20 years
Waranty	5 years

#### MPPT Controller

System voltage	12V
Max load power	40W
Motion Sensor	Microwave (PIR Optional)
Communication	√ Infrared / 2.4G
MPPT tracking efficiency	98%
Operating temperature	-35 °C ~ 65 °C
IP rate	IP67

#### LiFePO4 Battery

Battery type	Brand new, 80.0AH
Battery capacity	256WH
Battery lifetime	4000 cycles @ D.O.D 50%
Charge mode	C.C + C.V
Storage Temperature	+5 °C ~ +35 °C
Operating Temperature	-25°C~65°C
Warranty	3 Years

## ON/OFF SWITCH

Ensure no discharge during transportation and storage.



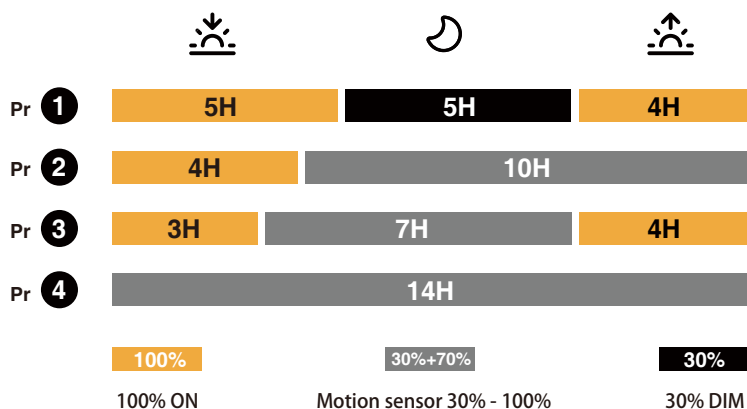
#### Intelligent Display

Press the switch to wait for 10 seconds the light will turn on.  
Press the switch again to turn off the light.

## WORKING MODE

### Operation Mode & Lighting Schedule

In addition to automatic switching on and off, you have the possibility of choosing among different modular operating modes according to the needs of the project

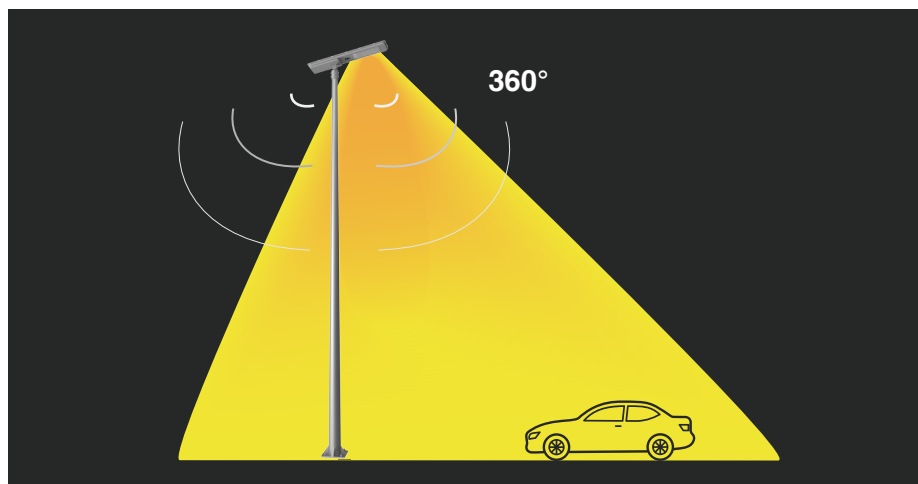


## MOTION SENSOR MICROWAVE

**Note:** luminaires are equipped with microwave sensors that use the Doppler effect (like car radars) to detect a nearby objects and measure the distance. The sensor emits a high frequency wave to reflect off of and analyze the objects in the vicinity.

Since the microwaves only detect specific objects, detection reliability increases resulting in :

- Much better reliability compared to the Infrared sensor
- Up to 360° Directivity
- Insensitivity to other environmental variations such as light, color, temperature, etc.



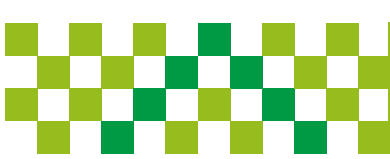


## INSTALLATION METHODS



## APPLICATIONS

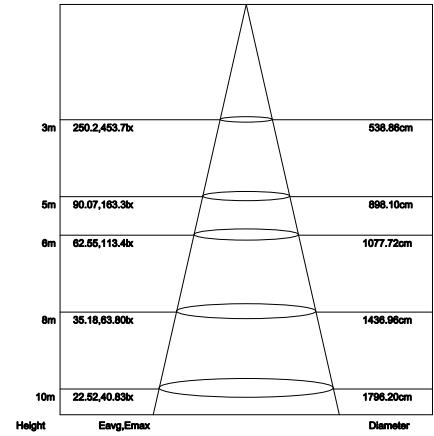
Village streets, Courtyard, Parking lot, Rural areas, Parks, Pedestrian path lighting, Industries, Office, Schools, Shopping centers, Corporate campuses, Plazas.



# OPTICAL LENS



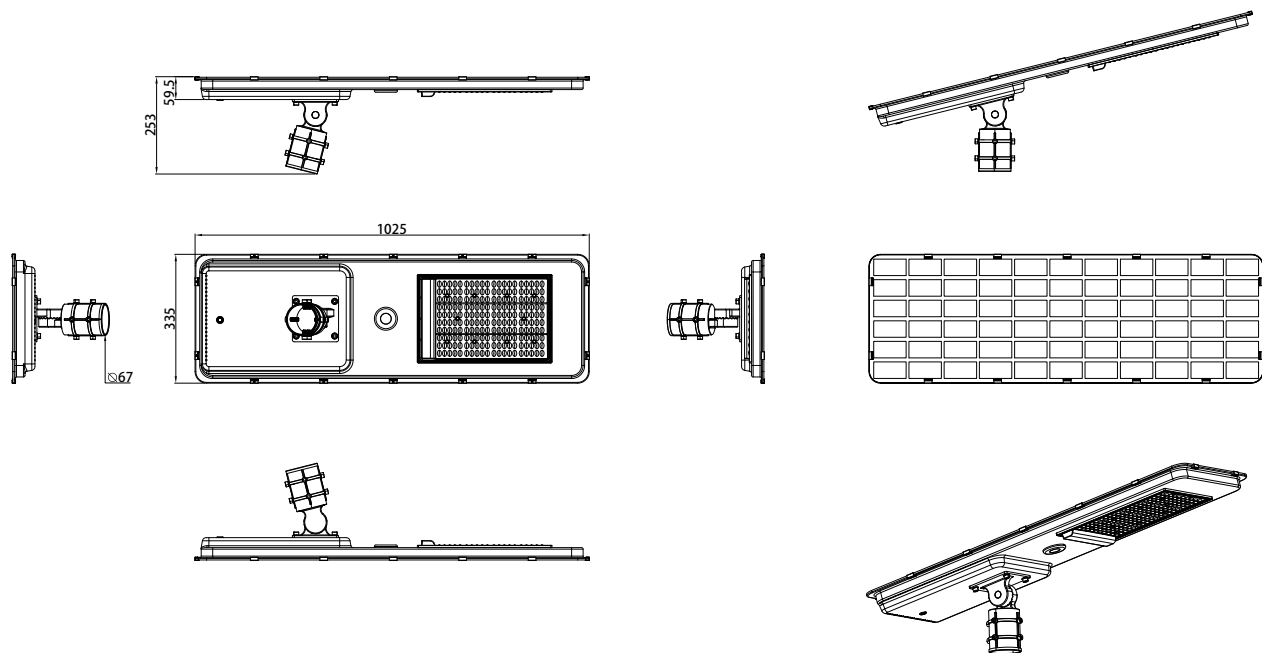
# ILLUMINATION



# LIGHT DISTRIBUTION

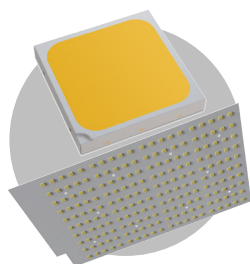
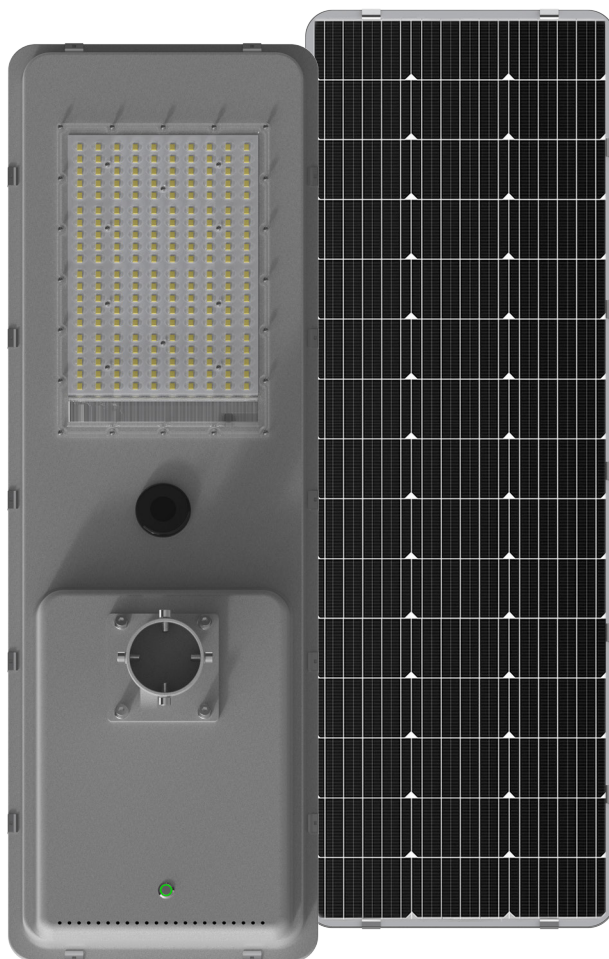


# SIZE Unit: mm

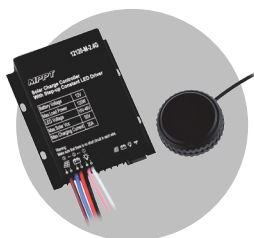




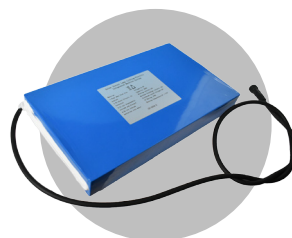
# PARTS DETAILED



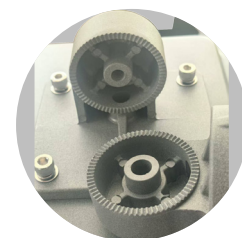
**200pcs 5050**  
Ultra high brightness



**MPPT Controller**  
With microwave motion sensor



**LiFePO4 Battery**  
Brand new



**Die-casting Alu**  
Adjustable accuracy 5°

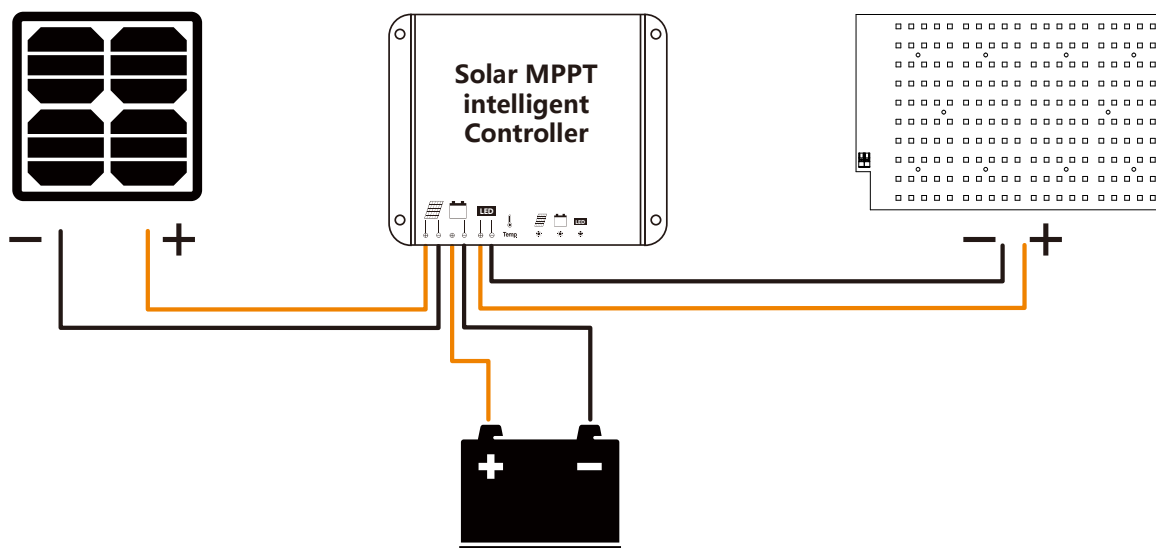


## Choose Accessories

Remote control

- Multi-functional key design, commonly used functions operate with one key.
- Wireless remote control realizes precise long-distance control of solar street lights.
- Batch setting of the controller.

## SOLAR STREET LIGHT SYSTEM WORKING DIAGRAM



## PACKING

### Solar Luminaire

Packaging size : 1075x385x205mm

Net weight : 8.9kg / 1pcs

Gross weight : 10.7kg / 1pcs

### Standards Compliance

- IEC60598-2-3 : Safety of luminaire for road and street lighting.
- IEC 62109-1 : Safety of power converters used in solar panel equipment.
- EN 50530 : Performance evaluation of maximum power point tracking (MPPT).
- IEC 61547 : EMC immunity requirements.
- IEC 62133, IEC 61960 & UL1642 : Safety of lithium ferro phosphate battery.
- IEC 61730-1,2 & IEC 61215 : Safety of solar panel module.

### Warnings and Safety

- Install the luminaire in a sunny place that is not shaded by trees, buildings and walls, then the solar panel can receive the maximum sunlight for charging the battery.
- Charge the product under sunlight for at least 8 hours before first time using.
- This luminaire does not need any external electrical connection. It works 100% on solar energy.



PROJECT CASE

