LED Light Vision

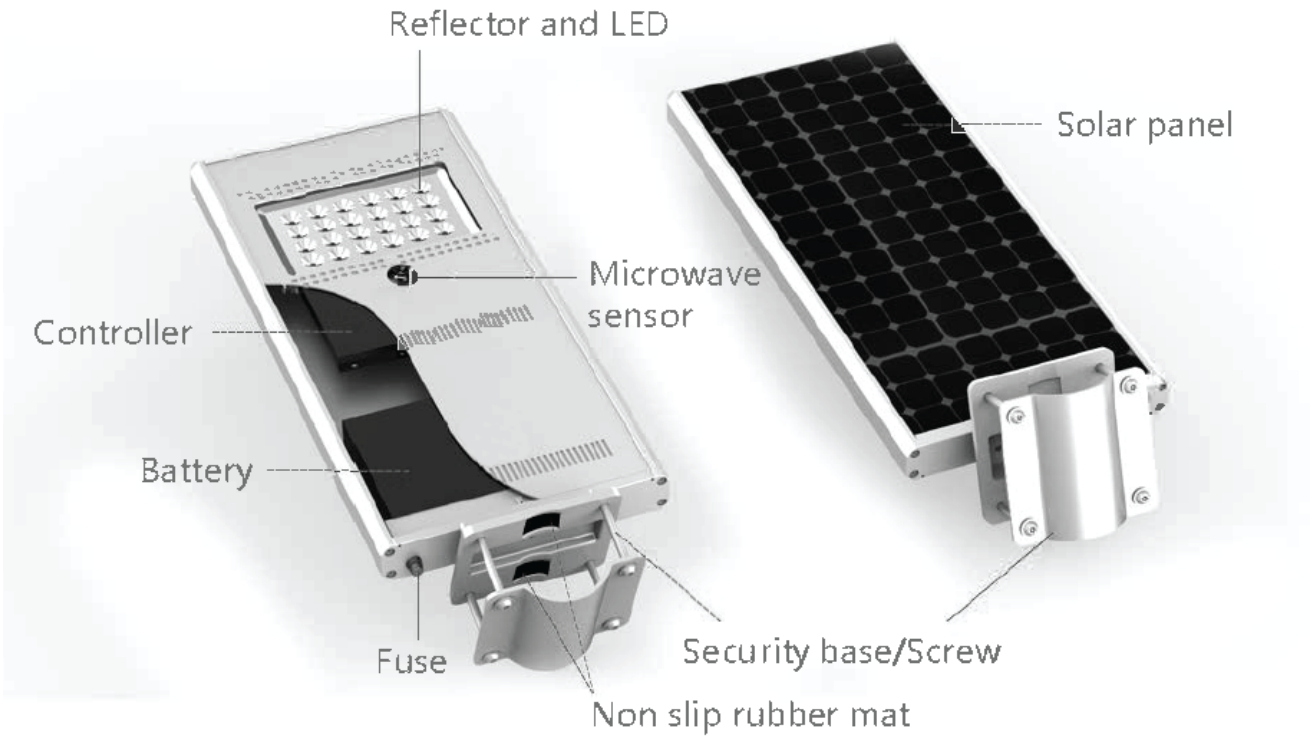
With you every step of the way

Luna

All in one solar street light

New generation

Luna brief introduction



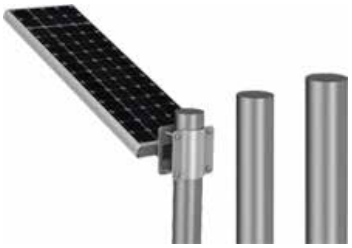
The Luna is an off grid lighting system. A patented product, designed and engineered for efficiency, performance, maintenance and energy saving applications.
Using high efficiency solar energy components combining a new type of lithium battery, intelligent solar controller and a night sensor + time control or Microwave sensor. The compact solar light can easily adapt to a range of commercial, urban and recreational applications.

The use of reflective cup technology can efficiently increase the lumen performance approximately by 30%, this means the all-in-one solar street light makes for superior energy saving, environmental protection and superb levels of controlled light. The simplicity of the system means a quick and easy replacement and elimination of older technology and outdated solar lights.

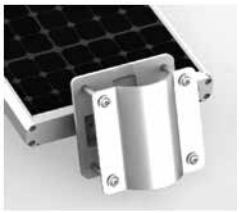
Features

The reflective cup technology can increase lumen performance by more than 30%

The ‘batwings’ PMMA lens option, enables a 60*140º light distribution



Easy installation, and suitable for a range of poles ranging from 60mm to 90mm in diameter.



The unique bracket is strong enough to withstand a 12 class typhoon.

The Luna has a large capacity battery with a balanced charging system. It also supports zero-voltage charging.

The adoption of Microwave sensor control technology enables the lights to shine more brightly when a human body is detected. This will then dim slightly where there is no activity.

Night sensor + time control option:
The solar panels charge during the day and light up automatically at night.

The single modular light-weight design means for an easier installation and any future maintenance.

The high efficiency of the solar panel and large capacity of the battery arrangement, will ensure continuous light for three days even in wet conditions.

Parameters

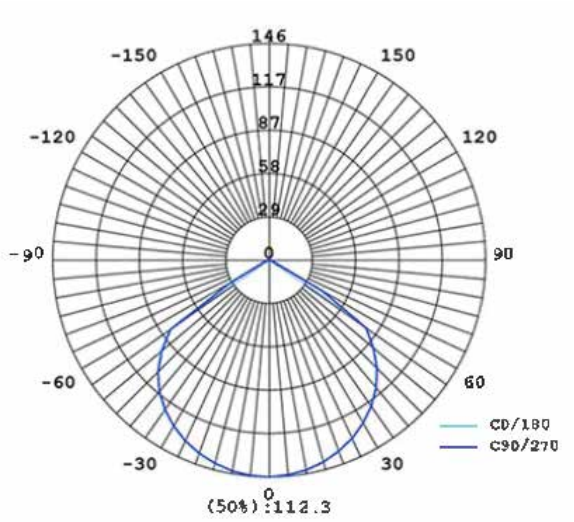
Model		LLV-5-10	LLV-5-15	LLV-5-20	LLV-5-30	LLV-5-50	LLV-5-80
LED Power		10W	15W	20W	30W	50W	80W
LED Luminous Flux		1000lm	1500lm	2000lm	3000lm	5000lm	8000lm
Solar Panel (high efficiency Mono)		12W	12W	25W	25W	45W	65W
Lithium-ion Battery		48WH	84WH	100WH	160WH	288WH	432WH
Charging by Sun		6-8 Hours					
Working Mode		8m remote Microwave motion sensor (standby 30% brightness, 100% brightness for 30 seconds when people pass underneath) Option: night sensor + time control:- 1h @ 30% + 4h @ 100% + 5h @ 20%					
Light Spot		Round / Rectangle		Rectangle			
Beam Angle		Round: 120° Rectange: 120*60°		120*60°			
Working Time	Full Power Mode	8-10 Hours					
	Power Saving Mode	30 Hours					
Storage Temperature		-20°C ~ +45°C					
Operating Temperature	Charging Mode	0°C ~ +60°C					
	Discharching Mode	-20°C ~ +60°C					
IP Grade		IP65					
Installation							
Suggested Install Height		3-4m	3-4m	4-5m	5-6m	7-8m	8-10m
Suggested Install Space		10-12m	12-15m	15-20m	20-25m	25-28m	28-30m

*The working time was tested under summer sunny days when the solar LED street light was charged for 8 hours: North latitude: 22° East longitude: 113°

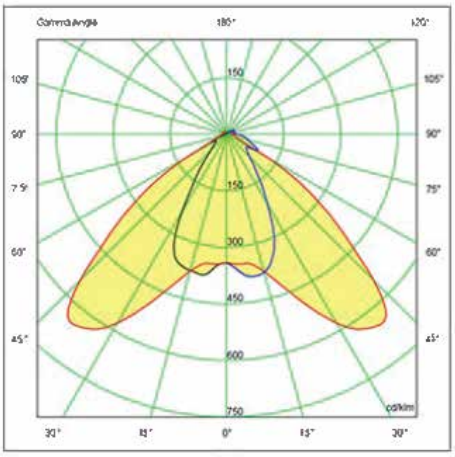
The actual working time will be a little different according to the place of installation, season, environment and direction etc.

Lighting distribution

Round lighting distribution: 120°



Rectangle lighting distribution: 120*60°



Introduction of a Microwave sensor

Diagram of motion sensor distance

Microwave motion sensor inductive range diagram

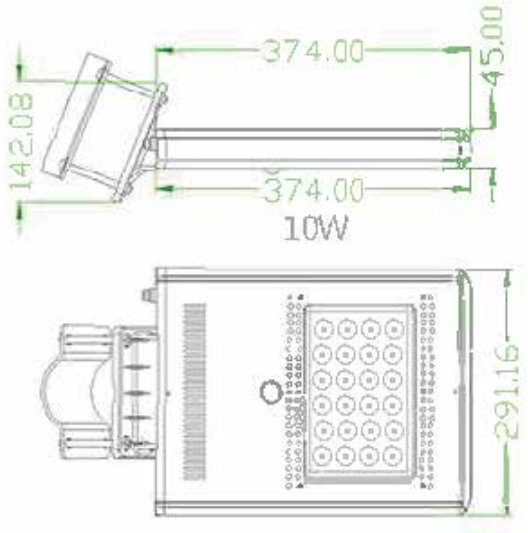
What is a Microwave sensor?

A Microwave sensor works by emitting high frequency electric waves to detect an objects movement. The Microwave sensor may not work as well, if placed in situations as the three images above.

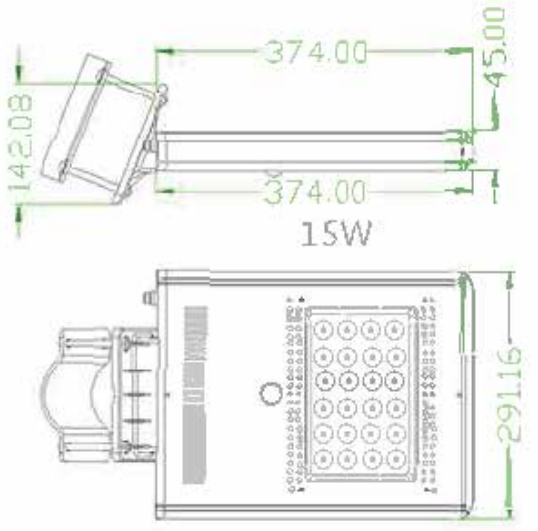
Why choose a Microwave sensor for outdoor lighting?

1. It can pass through glass, wood, plastic and other non-metallic objects, so it can be installed inside and have no impact on the lamp's design.
2. Is is not impeded by airflow, dust, temperature and humidity, unlike PIR sensors.

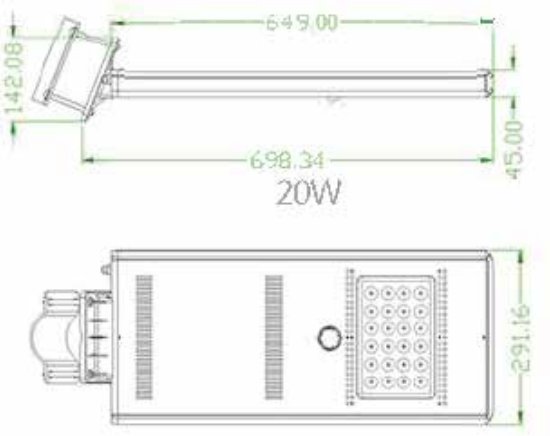
Dimensions



MODEL: LLV-5-10

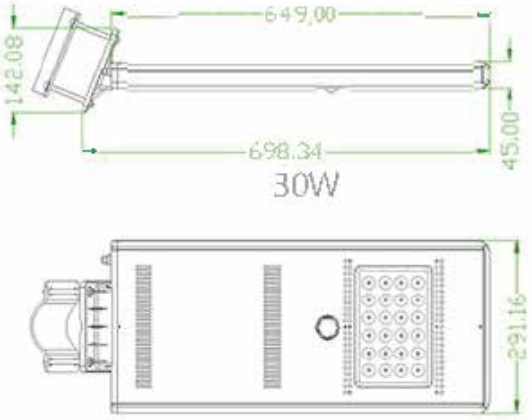


MODEL: LLV-5-15

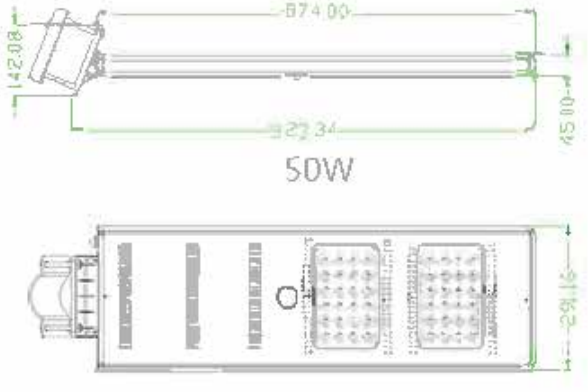


MODEL: LLV-5-20

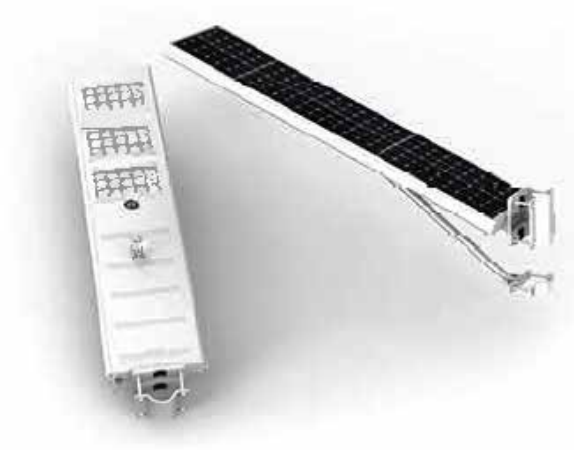
Dimensions - continued

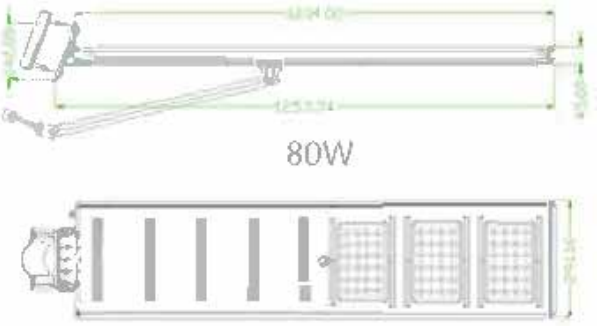


MODEL: LLV-5-30



MODEL: LLV-5-50





MODEL: LLV-5-80

Comparison with traditional solar LED light

1. Structure Comparison:

Luna integrates the solar panel, LED lamp and also LiFePO4 battery and controller, PIR sensor, day-lights control into one single product – it is compact and modern.

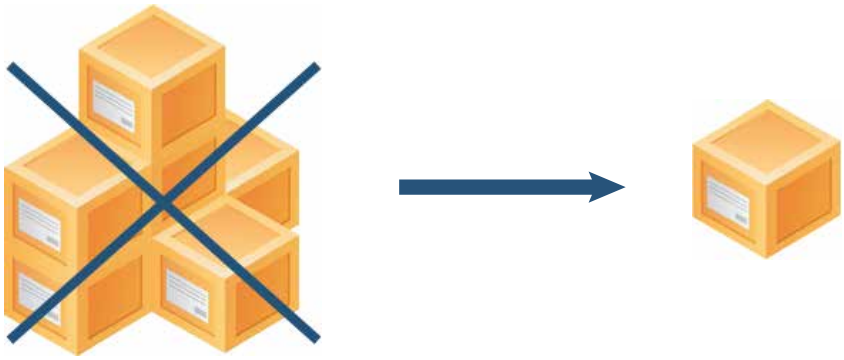
Luna

Traditional solar street lights

Traditional solar street lights have each component separate and the combined size and weight is very large. They are more complicated to assemble and install.

2. Transportation Cost Comparison:

Luna integrates all parts into a compact housing which will save freight costs. The cost to transport is a fraction of a traditional street light.



3. Installation Comparison:

The LED lights on the Luna have all components in one unit as we have explained making them very easy to install.

Comparison with traditional solar LED light

4. Battery Lifetime and Maintenance Cost Comparison:

For a traditional solar LED street light, the battery needs to be replaced every two years. We estimate there is no need to replace the battery or undertake maintenance within 8 years for the Luna all in one LED street light.

If the battery does need replacing, the user only needs to take a few minutes to replace it without any technical advice due to our special product structure design.

Application

Member of the LIA

LED Light Vision

With you every step of the way

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