

## WU solar lamp

From nature, it illuminates the future



A super star in the solar streetlight market

# Table of contents

1.	Unique design of the structure -----	02
2.	Core technologies -----	04
3.	Remote control -----	05
4.	Light distribution -----	06
5.	Dimension -----	07
6.	Paramètre -----	08
7.	Application -----	09

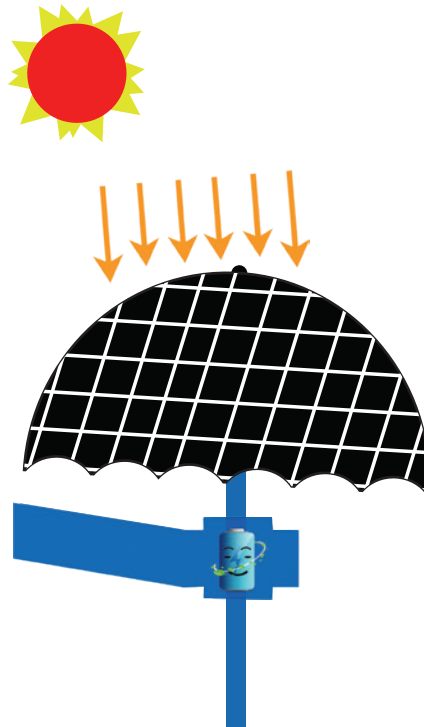
# 01

## Unique Structure Design

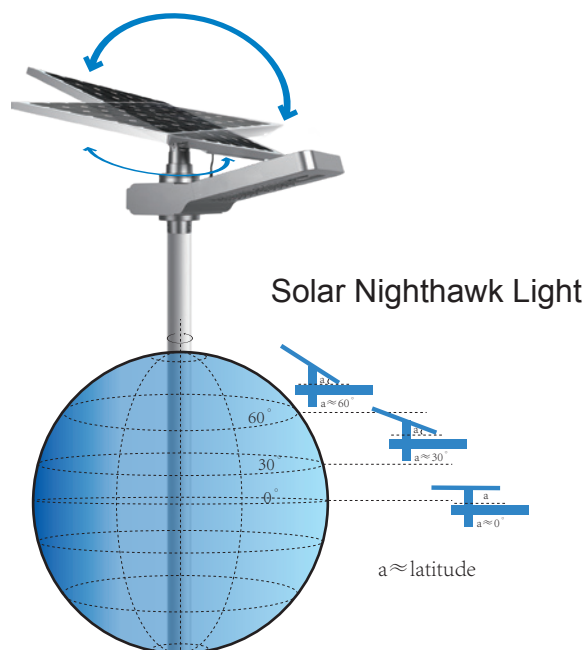
- Integrate the solar panel, led body, battery and controller into whole system. Easy to transport, install and maintain.



- Solar panel looks like an umbrella to protect battery from high temperature and extend the lifetime. Perfectly solve heat dissipation.



- Solar panel can be adjustable manually in vertical and horizontal direction, ensure the maximum efficiency of solar energy.



## 02

## Core Technologies

**Unique Integration Design**

Easy to transport, install and maintain

**Rotating Solar Panel**

Solar Panel can be adjusted in vertical and horizontal direction

**Charge and Discharge Management**

Protect battery by software and hardware, supporting battery charge at 0v

**Light Efficiency Management**

Patent led chip with high efficiency, up to 160lm/w

**Microwave Motion Sensor**

Radar controlled, called Doppler effect. More intelligent, energy-saving

**Control Mode Management**

6 work modes for choice

**Patent Bat-wing Lens**

Lighting area much wider, the maximum of using the lighting all light the road

**Battery Program Updated**

Embedded single string control technology.

More stable and longer lifespan.



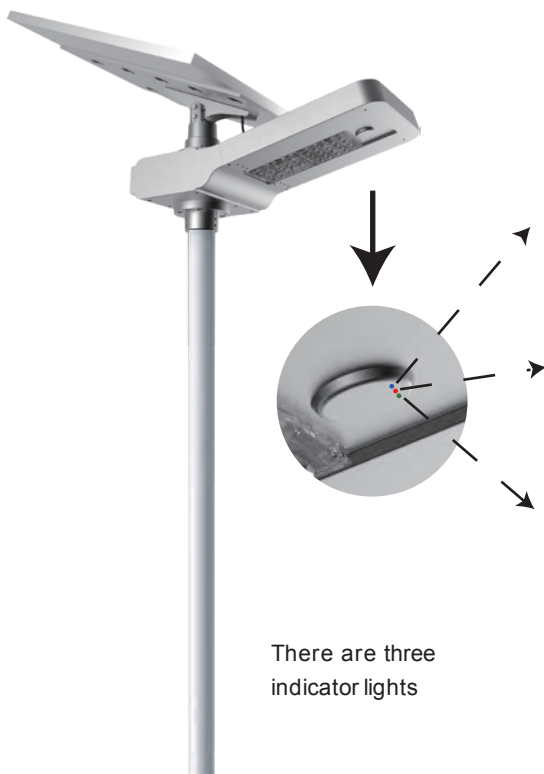
Enhanced analysis of heat dissipation and heat conduction by EFD






The stability of the mechanical structure is enhanced by the mechanical analysis of ABAQUS

# 03 Remote Control

## Indicator light status instructions



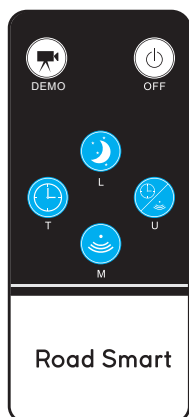
There are three indicator lights







LED light	Indications	Status	Functions
● Blue 	Charging indication	Long-term On	Be charging
		Long-term Off	Battery full charged
● RED 	Battery indication	Long-term On	Battery works normally
		Long-term Off	Battery is not connected/No power
		Fast twinkling	Battery is over discharged
		Slow twinkling	Battery full charged
● Green 	Load indication	Long-term On	Load is on
		Long-term Off	Load is off

**System faults include:**

1. Over discharging of battery.
2. System overvoltage.
3. LED load in short circuit.
4. LED load in open circuit.

## 6 working modes

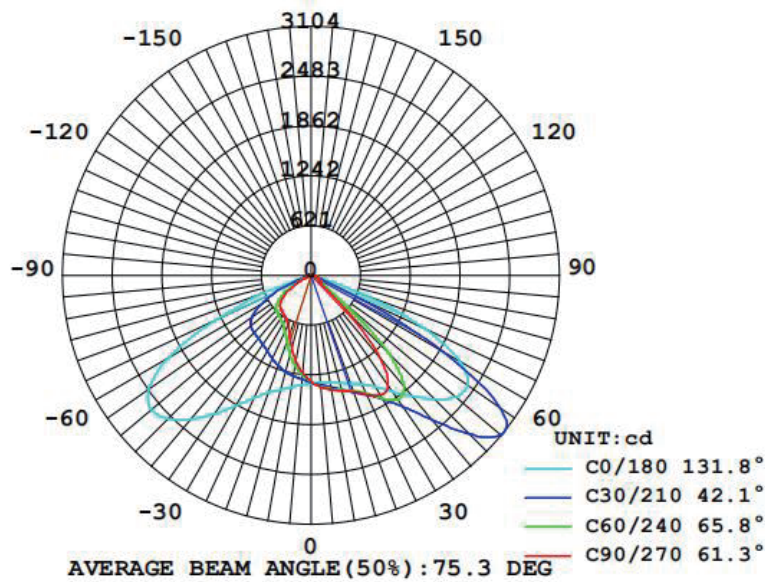


-  **DEMO:** No matter day or night, light "on" for 1 mintue. Only for test use.
-  **OFF:** Light "off", no matter day or night.
-  **L:** At night, 100%-2hr, 70%-2hrs, 30%-dawn.
-  **T:** At night, 100%-1hr, 70%-2hrs, 40%-3hrs.
-  **M:** At night, 50%-1hr, 100%-3hrs, 30%-dawn.
-  **U:** At night, 100%-1hr, 70%-3hrs, then sensor working, 50% if people come, 20% stand-by.

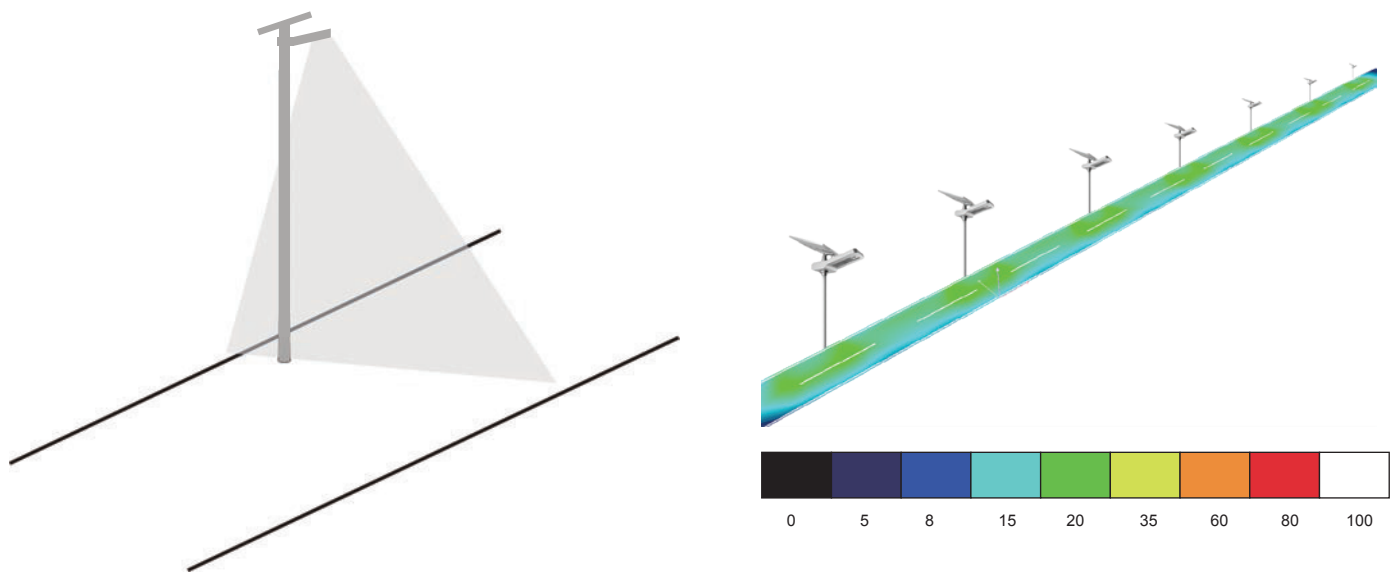
**Note:** Default is L mode, once a certain mode was set successfully, it will be reserved until you change other modes with remote control.

# 04 Light Distribution

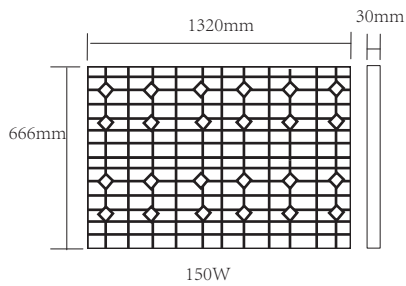
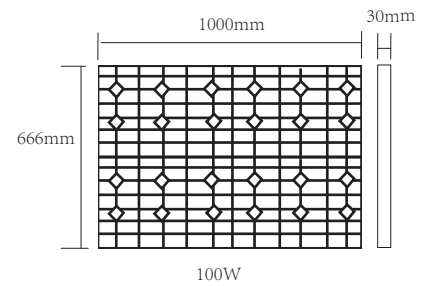
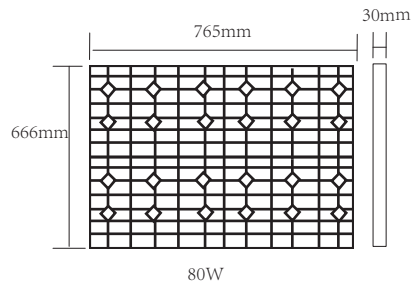
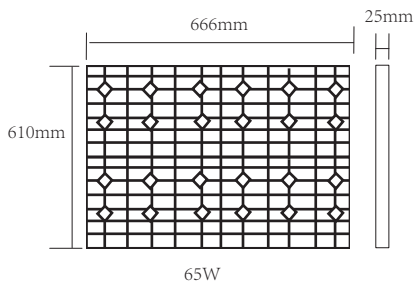
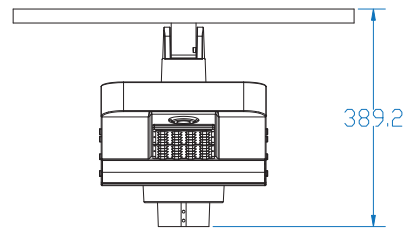
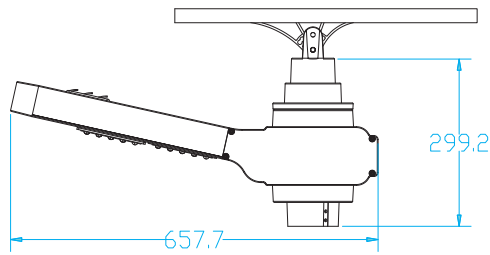
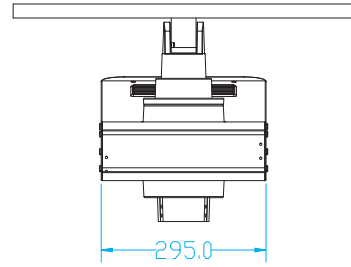
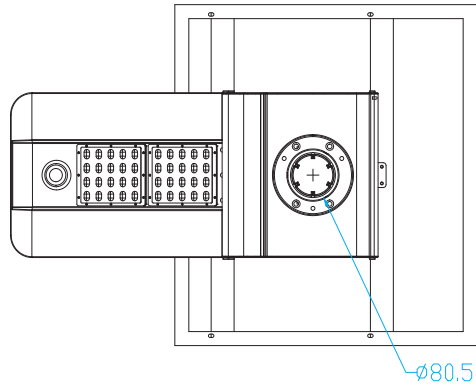
## ■ Luminous intensity distribution curves



## ■ Bat wing lens with polarized light



# 05 Dimension





## 06

## Parameter

## ■ Technical parameter

	Type	WU - 20	WU - 30	WU - 40	WU - 50	WU - 60
Panel	Power	65W/18V	80W/18V	100W/18V	150W/18V	100W*2pcs/18V
	Material	Mono crystalline silicon	Mono crystalline silicon	Mono crystalline silicon	Mono crystalline silicon	Mono crystalline silicon
	Solar cell efficiency	19-20%	19-20%	19-20%	19-20%	19-20%
Lithium battery	Capacity	210WH	340WH	420WH	575WH	650WH
	Charge cycle times	2000 times	2000 times	2000 times	2000 times	2000 times
Lamp head	Luminous flux	3000-3500lm	4500-5000lm	6000-6500lm	7200-7500lm	8400-9600lm
	Light output	20W	30W	40W	50W	60W
	LED qty	105pcs	105pcs	105pcs	105pcs	105pcs
	LED chip	Bridgelux				
	Color temperature	3000-6000K				
	CRI	≥70Ra				
	Material of lamp head	Aluminum alloy				
	Elevation angle	12° (attention to Dialux use)				
Lifespan	50000hrs					
System	Light control voltage	5V				
	Light distribution	Batwing lens with polarized light				
	Beam angle	X-axis: 140° Y-axis: 50°				
	Lighting time(full charged)	2-3 rainy days				
	Operation temperature	-20℃~60℃				
Installation	Top diameter of pole	80mm				
	Mounting height	5-8m		7-12m		
	Installation spacing	10-20m		20-30m		

07

Application



Highway



Pathway



Village road



School



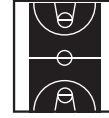
Park



Villa



Parking lots



Sports venue

