

规格书 SPECIFICATION



产品名称

Product Name: Solar LED Street Light

产品型号

Part No: LY-ST33100XX (XX=PW、WW、NW)

批准号码

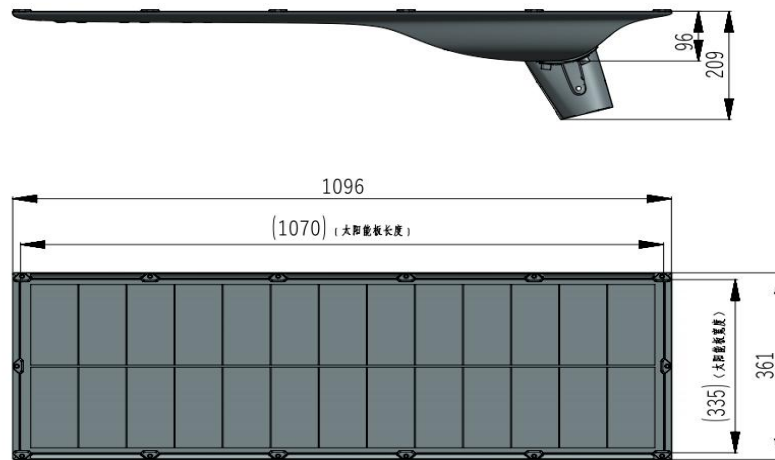
Approval No: 20240715001

V1.0

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1. Outlook



Unit: mm

2. Application

Suitable for the street lighting; Sidewalk lighting; Roadway lighting; Fence lighting; Pathway lighting; Campus lighting; Park lighting; Garden lighting; Ramp lighting; Boat dock lighting; Remote area lighting; Farm & Ranch lighting.

3. Features

1. The lamp adopts integrated structure design, with better heat dissipation design and longer life;
2. Using LUXEON 3030 lamp beads, the whole lighting effect is up to 200lm/W;
3. The solar panel is made of Monocrystalline silicon, with a higher conversion efficiency, up to 18%, and a service life of up to 25 years;
4. Using the most advanced MPPT tracking control technology to improve system efficiency and reduce costs;
5. It has functions of light control, time control, dimming, intelligent power saving + morning light;
6. Solar controller built-in lightning protection module;
7. Using ternary lithium battery technology, the battery capacity is high;
8. 365 days uninterrupted power.
9. Three control model: **Time control + light sensor control + motion sensor control**

Time control: It can be divided into 5 time periods, which is more humane and energy-saving;

Light sensor control: When the evening comes, when the solar panel battery voltage is lower than 3V, the lamp will automatically turn on;

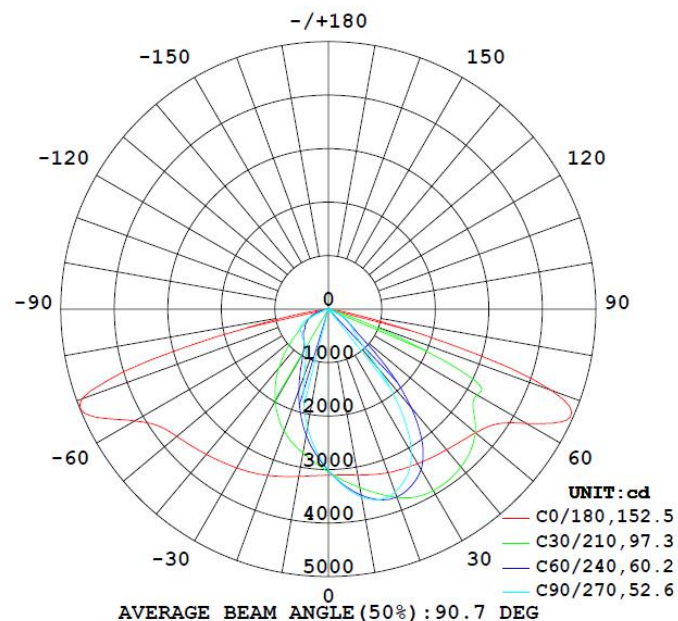
Motion sensor control: A motion-sensing energy-saving mode. When a moving object is sensed, the lamp will have 100% brightness; when no moving object is sensed, the lamp will be in a low-power and energy-saving state, with a brightness of 10%-100% (can be set)

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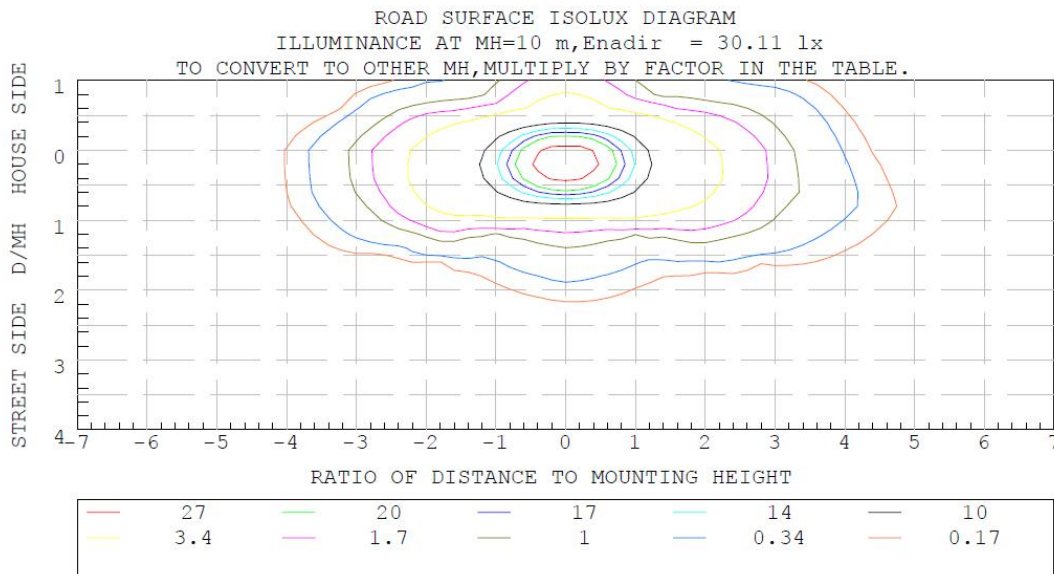
4. Specification

Part Number	LY- ST33100XX		
Parameter	XX=PW/WW/NW		
Battery	33140 LiFePO4 3.2V 105 Ah (336Wh)		
Beam angle	150x65°		
Pole diameter	60 / 76 MM		
Light output Max	60W		
Luminous flux(lm) Max	12000		
Color Temperature	Pure white:5000-6500K	Warm white:2700-3200K	Neutral white:4000-4500K
Solar panel	65W /6V Monocrystalline silicon (Life span of 25 years, 80% efficiency)		
CRI	>70		
Chip Brand	LUXEON 3030		
LED Quantity(PCS)	200		
Control Mode	Time control + Light sensor control + Motion sensor control		
Operating time	>12 hours ,Intelligent mode 1-2 days (Affected by local use environment and sunlight)		
Material	Aluminum		
Luminous efficiency(lm/w)	>200		
warranty	Three years		
IP Rating	IP65		
Installation height	With Sensor 6~8M (NO Sensor 8-10m)		
Size(mm)	L1096*W361*H209mm (L43.15*W14.21*H8.23 In)		
Net Weigh(kg)	12.1		

5. Distribution Curve



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According to LB/T001-2001
 $U = E_{min}/E_{avg} = 0.272$
 $E_{avg} = 27.52 \text{ lx}$

HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

6. Operation and Storage Condition

- Operation Ambient Temperature -10 to +45°C, Relative Humidity 20~90%;
- Storage Ambient Temperature -10 to +35°C, Relative Humidity 5~95%;
- Mounting Height: With Sensor Suitable for 6~8m height; NO Sensor 8-10m.

7. Package

Lamp body packing size:

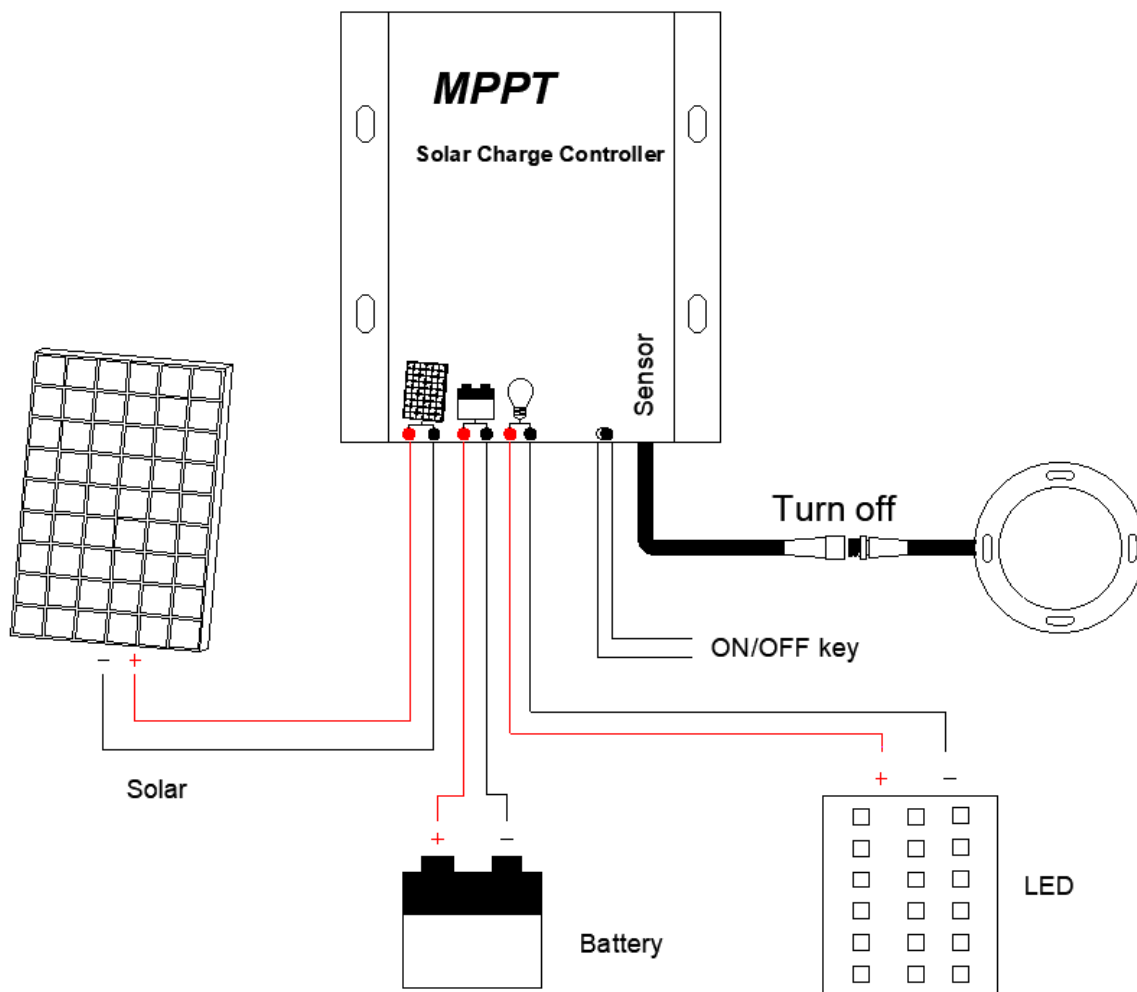
Par NO.	Size	Net weight	Gross weight	Quantity
Carton	L1150*W430*H150MMmm L45.28*W16.93*H5.91In	12.1kg	14kg	1PCS

Bracket packing size:

Par NO.	Size	Net weight	Gross weight	Quantity
Carton	L460*W360*H160MMmm L18.11*W14.17*H6.3In	5.6kg	6.3kg	6PCS

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8. Lamp internal wiring diagram:



9. Warning

1. Do not install in high temperature, closed and non-ventilated areas;
2. The installation location should not be installed under the tree or the place where there are obstructions. The solar panel must be exposed to sunlight in all directions;
3. When the product is stored in the warehouse, it needs to be charged and discharged every 3 months;
4. When the product is faulty, you need to find a professional to deal with it;
5. Eliminate scrapped products, must be handed over to the relevant departments for Centralized processing.