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BOSIWEI GARDEN LIGHT SERIES

BSW
江苏博思维光电集团
JIANGSU BOSIWEI OPTOELECTRONICS GROUP

Patent No:202030558766.8

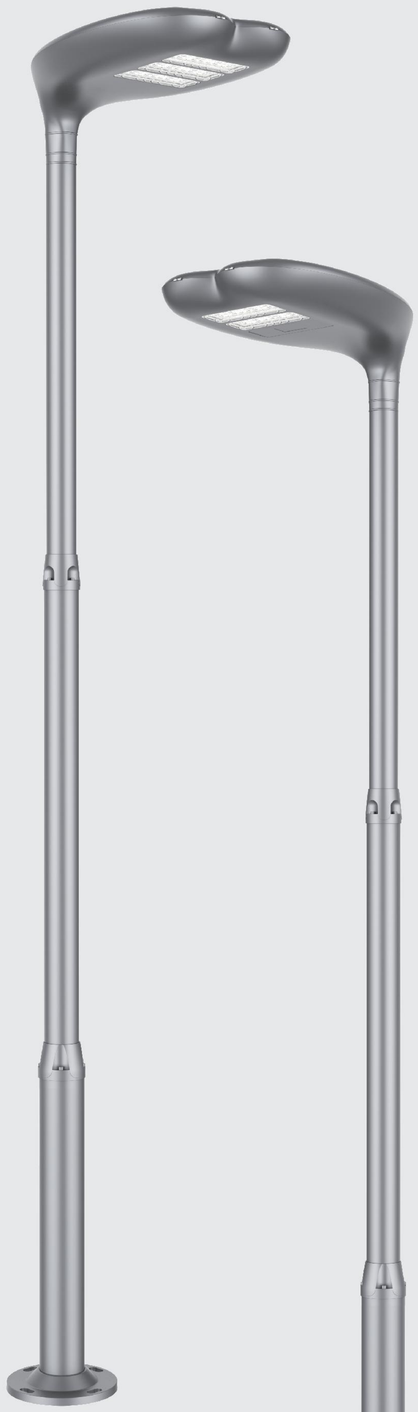
GARDEN LIGHT SERIES

CLOVER · Garden Light

LED/solar integrated garden light

COMBINATION GARDEN LIGHT

江苏博思维光电集团
JIANGSU BOSIWEI OPTOELECTRONICS GROUP



Clover-LED Garden Light

The lamp body is made of high-pressure die-cast aluminum, which has high strength and strong impact resistance. The surface is treated by electrostatic powder spraying, which has a light and thin texture and good corrosion resistance;

Wide voltage power supply AC100-305V;

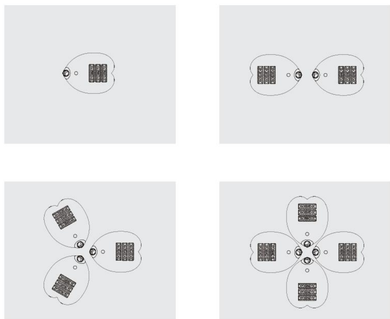
The module forms a bat-wing light distribution through a patented lens to achieve uniform light distribution and greatly improve the lighting effect;

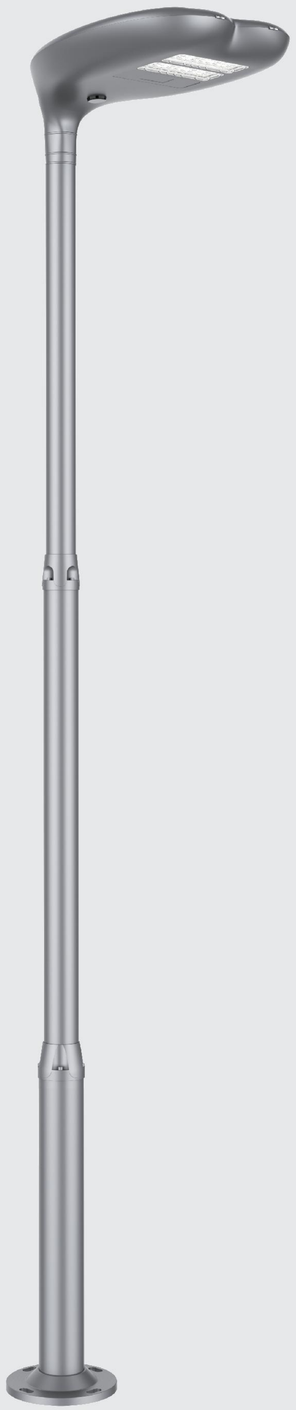
Humanization design, change the color temperature and number of modules etc according to the season to meet lighting demand;

Combined lamps, can be combined into a variety of lamps and various heights to meet different customers' demands;

All screws are made of 304 stainless steel.

A variety of combinations are available





Clover-Solar Garden Light

The lamp body is made of high-pressure die-cast aluminum, which has high strength and strong impact resistance. The surface is treated by electrostatic powder spraying, which has a light and thin texture and good corrosion resistance;

High-efficiency solar cells with different configurations to meet different lighting needs;

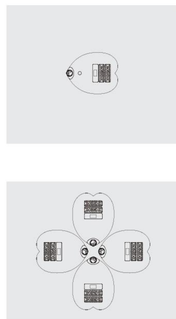
Built-in lifepo4 battery, long life and safe;

Charge and discharge protection, multiple modes flexibly change;

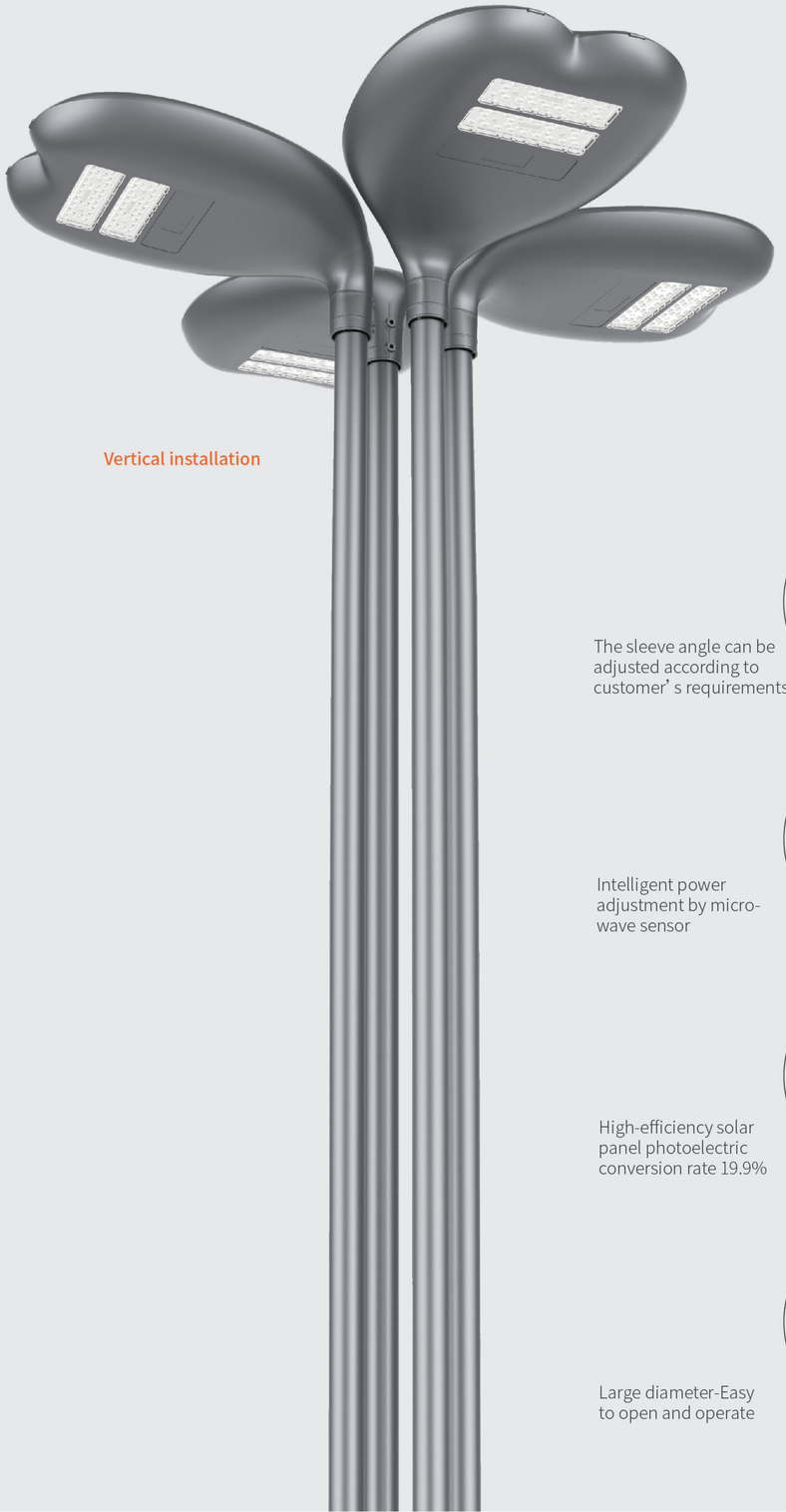
Humanization design, change the color temperature and number of modules etc according to the season to meet lighting demand;

Combined lamps, can be combined into a variety of lamps and various heights to meet different customers' demands.

A variety of combinations are available



Lamp display



Vertical installation

The sleeve angle can be adjusted according to customer' s requirements

Intelligent power adjustment by micro-wave sensor

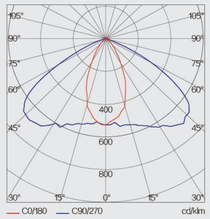
High-efficiency solar panel photoelectric conversion rate 19.9%

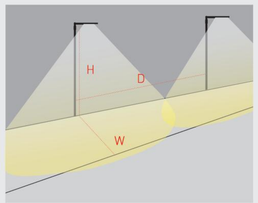
Large diameter-Easy to open and operate

Horizontal installation

Light distribution curve

TYPE I -S

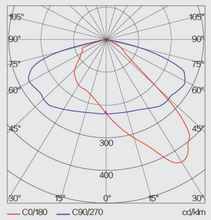




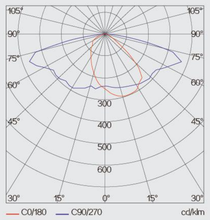
TYPE I: This light type is mainly used in narrow sidewalks or bicycle lanes. The main body of the lamp holder is located in the center of the road, and the illumination width (perpendicular to the direction of road travel) is basically the same as the lamp height.

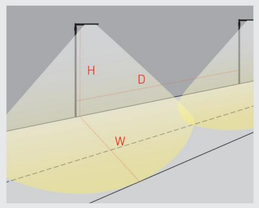
H=The vertical height of the street light pole and the ground
W = The width of the irradiation area
D = The distance between street light and street light

TYPE II -S



TYPE II -M

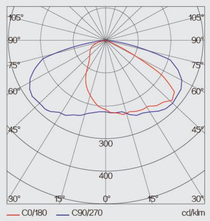




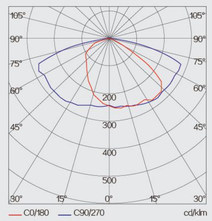
TYPE II : This type of light is mainly used for wide sidewalks, entrances to driving lanes, bicycle lanes or other narrow and narrow lighting applications. The main body of the lamp holder is located on the side of the road, not in the center. The illumination width is generally between 1-1.75 times of the lamp height.

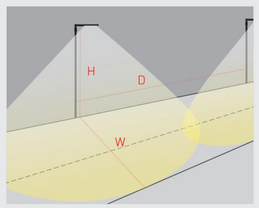
H=The vertical height of the street light pole and the ground
W = The width of the irradiation area
D = The distance between street light and street light

TYPE III -S



TYPE III -M





TYPEIII: Mainly used for highways, driving lanes, parking lots and general square lighting. The main position of the lamp holder is on the side of the road, and the lighting width is between 1.75-2.75 times of the lamp height.

H=The vertical height of the street light pole and the ground
W = The width of the irradiation area
D = The distance between street light and street light

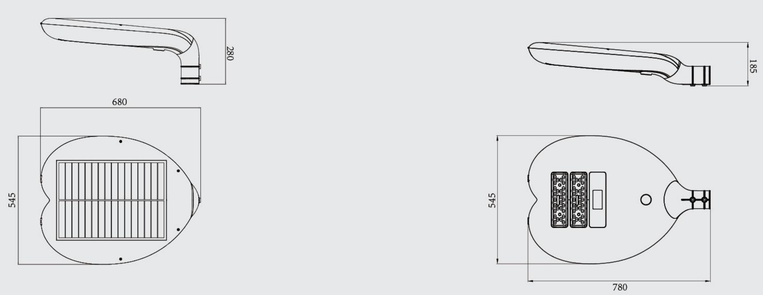
Specification

√ : standard， /: Not applicable

BSW-SYC integrated garden light parameter table			
Model	**BSW-SYC.SD-A01**	**BSW-SYC.SD-A02**	**BSW-SYC.TYN-B01**
Product Specifications			
Monocrystalline silicon solar panel (W)	/	/	4*30W
Lithium-ion battery capacity (Wh)	/	/	256WH(12.8V/20AH)
Number of LED chips (pcs)	2*65	3*65	8*65
Human body infrared sensor	/	/	√
LED Source	LUMILEDS、CREE	LUMILEDS、CREE	LUMILEDS、CREE
Housing Material	ADC12	ADC12	ADC12
Product Size (mm)	680×545×185	680×545×185	680×545×185
Controller Type	/	/	MPPT Controller
Installation Diameter	φ60mm	φ60mm	φ60mm
Suggest Height	3-4m	3-4m	3-6m
Product Performance			
Rated Power (W)	120W	180W	4*20W
Input Voltage (V)	100V~305V	100V~305V	3.2V/12V
Color Temperature (K)	3000k-6500K	3000k-6500K	3000k-6500K
Rated Luminous Flux (lm)	18000lm	27000lm	4*3000lm
Color Rendering Index	CRI > 70	CRI > 70	CRI > 70
Working hours (hours) Microwave Mode	/	/	24
LED Lifespan	> 50000H	> 50000H	> 50000H
HZ Range	50-60Hz	50-60Hz	50-60Hz
Power Factor	> 0.95	> 0.95	> 0.95
System Efficiency	> 90%	> 90%	> 90%
Electric Shock Rating	Class Ⅱ	Class Ⅱ	Class Ⅱ
IK Rate	IK08	IK08	IK08
IP Rate	IP65	IP65	IP65
Working Environment			
Color Temperature	-30℃~50℃	0℃~60℃	-40℃~60℃
Color Rendering Index	10%-90%	10%-90%	10%-90%

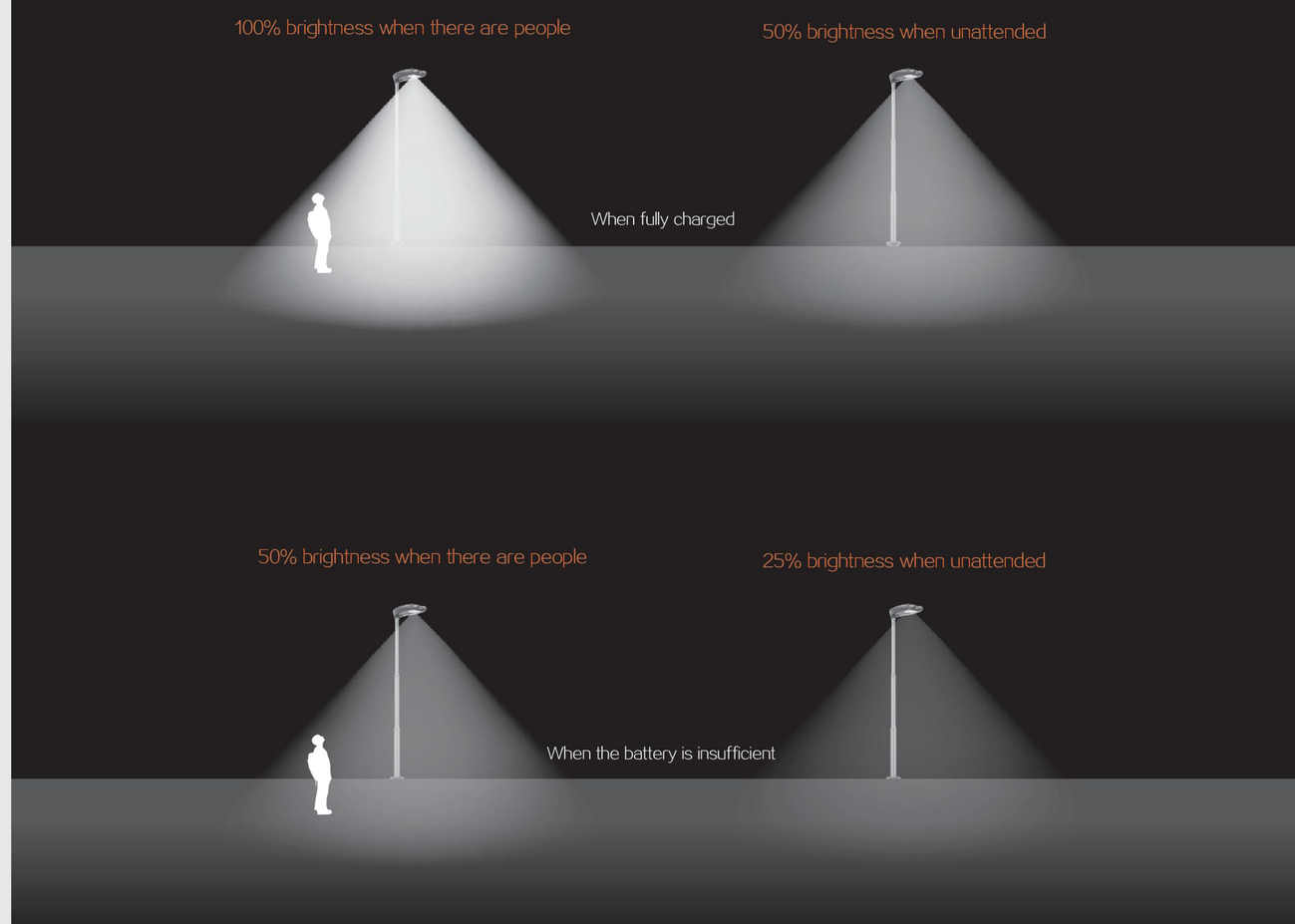
Product Size

BSW-SYC SIZE（mm)



Intelligent microwave induction

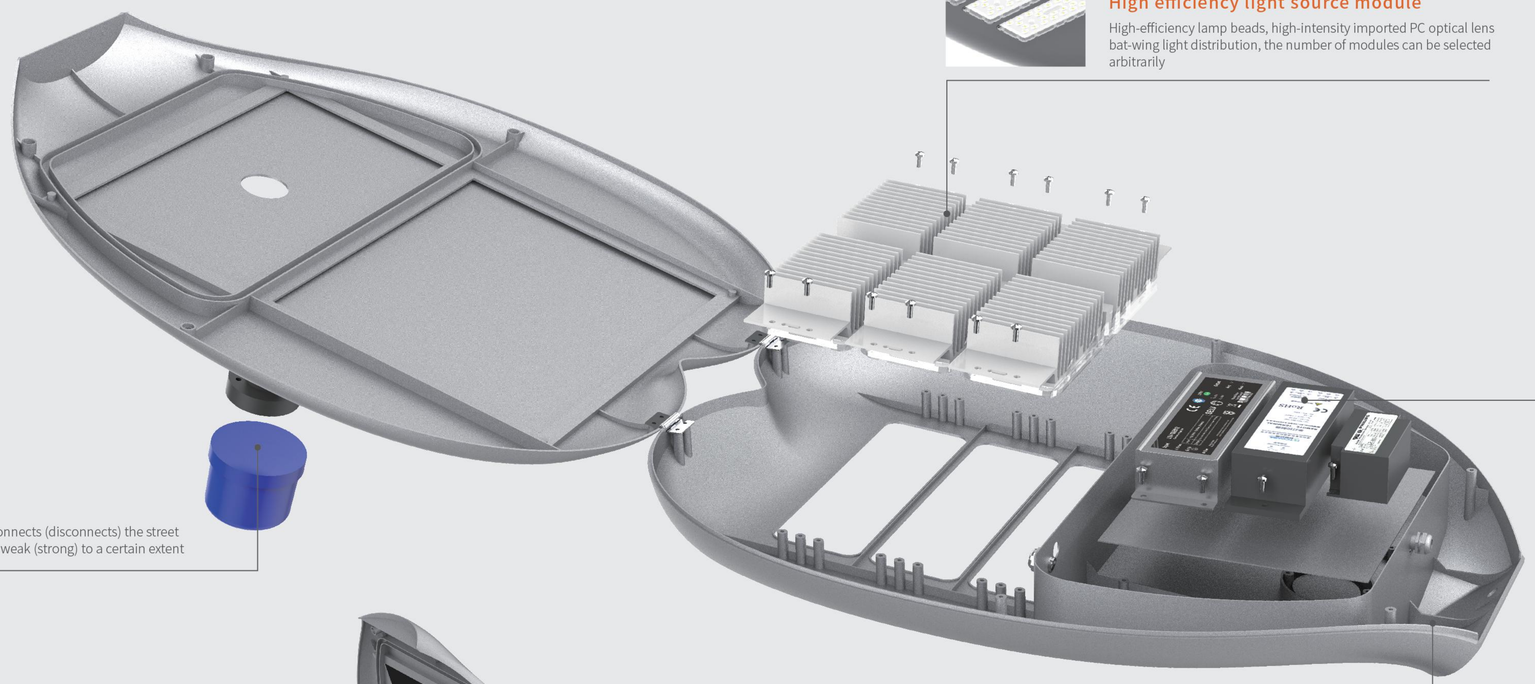
The intelligent battery control system can automatically adjust the output power of the lamp according to the battery storage capacity, effectively extending the working time of the lamp, and ensuring the continuous operation of the solar street lamp even in continuous rain days.

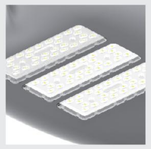


For example: when the battery is full, the standard output of the lamp power (100% brightness when there are people, 25% brightness when there are no people)
When the battery is insufficient, reduce the output power of the lamp (20% brightness when there are people, 5% brightness when there are no people)

Lamp details display

LED clover explosion diagram





High efficiency light source module

High-efficiency lamp beads, high-intensity imported PC optical lens bat-wing light distribution, the number of modules can be selected arbitrarily

Driver

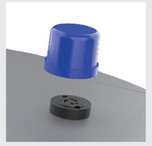
Stable, reliable and long-life constant current output control method

Single lamp controller

Realize product networking; timer switch, dimming, remote management, fault alarm and other functions

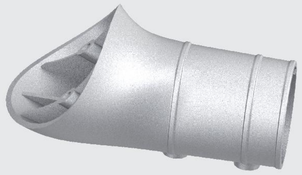
Lightning protection module

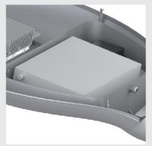
Effectively protect electrical equipment from damage caused by lightning overvoltage, operating overvoltage, and power frequency transient overvoltage



Photocell

A device that can automatically connects (disconnects) the street light circuit loop when the light is weak (strong) to a certain extent



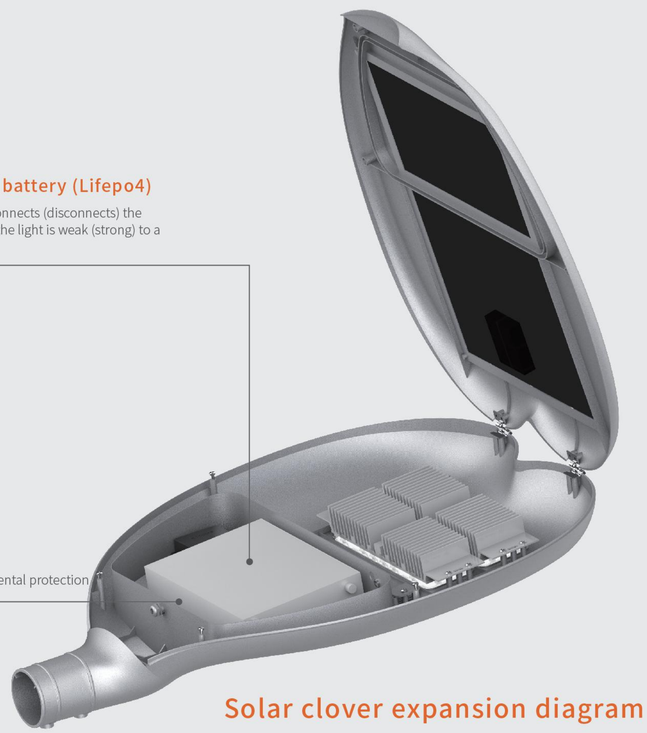


Lithium iron phosphate battery (Lifepo4)

Equipment that can automatically connects (disconnects) the circuit loop of the street lamp when the light is weak (strong) to a certain extent

Lamp switch

Save resources, green and environmental protection



Solar clover expansion diagram

Anti-drop device

Prevent the lamp cap from falling too heavy and causing unnecessary safety hazards

Adjustable sleeve

Can be installed horizontally and vertically to meet different needs

Lamp structure

Adjustable support parts

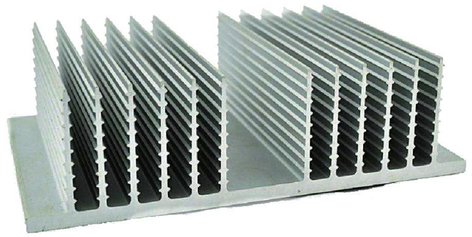
The supporting parts are made of stainless steel, the isotropy of the cast steel material and the overall structure of the cast steel are strong, which improves the robustness of the product and has strong impact resistance. 0° and 90° can be switched at will. Sturdy and durable, wind and rain, cold and heat, does not change the nature.

Smart controller

Intelligent power adjustment, automatic weather judgment, reasonable excretion law planning and embedded microcomputer control system, multiple intelligent control methods for charging and discharging, make the whole system more efficient and energy-saving.

Infrared smart sensor

Intelligent power adjustment, automatic weather judgment, detection of object movement; when people come, the lights are bright, when people go, the lights are dark, effectively extending the lighting time. Reasonable excretion law planning is embed-ded in the microcomputer control system, and a variety of intelligent control methods for charging and discharging make the entire system more efficient and energy-saving



Efficient radiator

The excellent heat conduction system and the large heat transfer area help to speed up the heat transfer and take away more heat to achieve the ideal heat dissipation effect.

Bat light distribution module

The specially customized patented lens, combined with the high-quality aluminum substrate and the sealed lens, improves the lighting effect of the lamp, makes the lighting uniformity better and better, and improves the road lighting effect.

High-efficiency photovoltaic panels

The selection of materials is strict, after many tests and classifications, qualified cells are selected, and a special lamination process is adopted. To ensure the bonding strength between Eva, tempered glass and backplane. It has the advantages of good performance, long service life and high power generation efficiency.

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