

# CLIMBER

Solar integrated light

JIANGSU BO SIWEI  
OPTOELECTRONICS GROUP



## BO SIWEI OPTOELECTRONICS GROUP

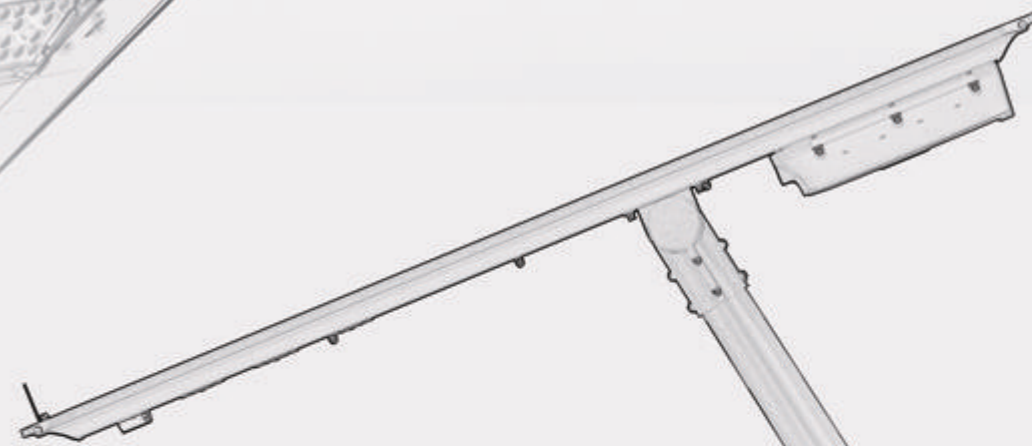
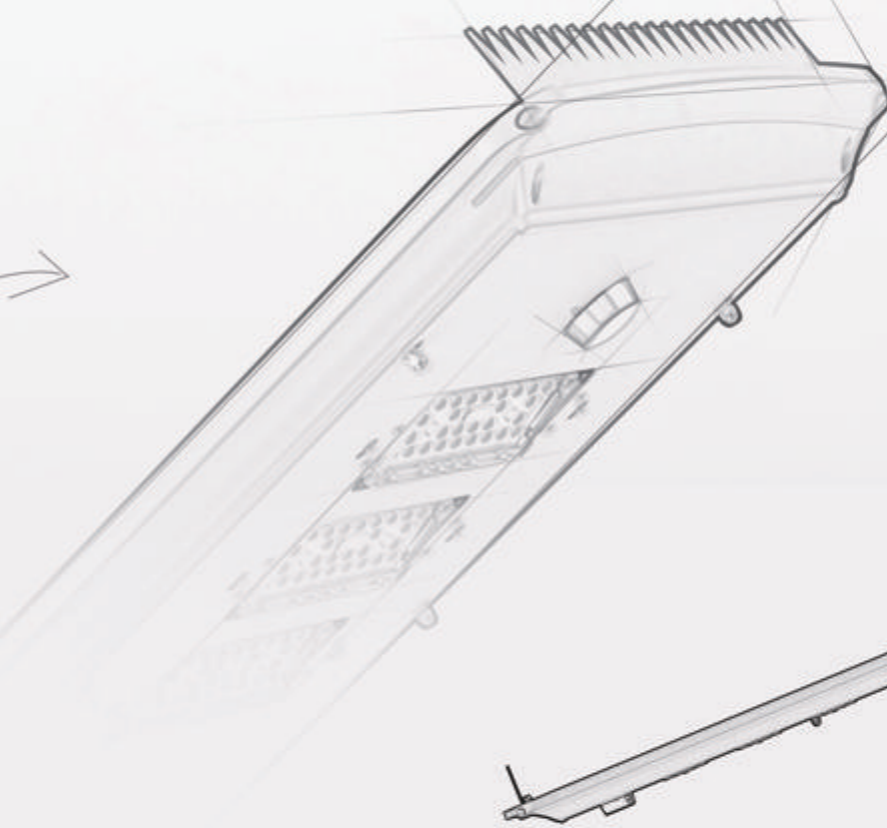
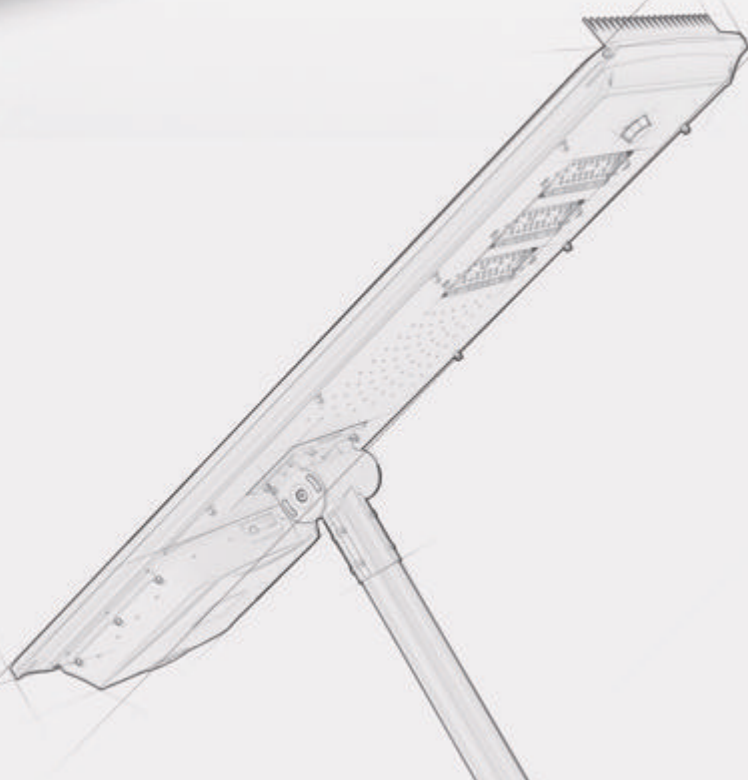
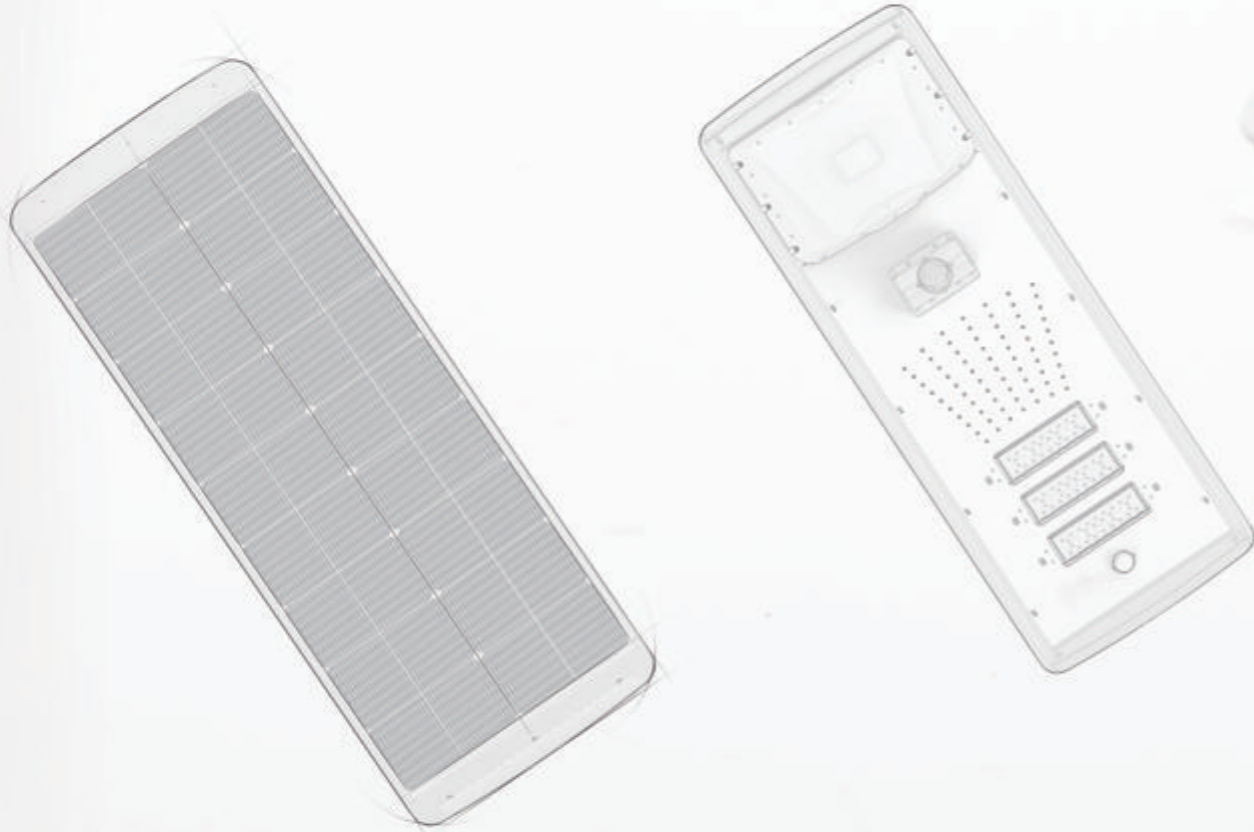
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PATENT NO:  
202030557381.X



志坚者，  
Annals firm person,

功名之柱也，  
the column of the scholarly honour and official rank also,

登山不以艰险而止，  
mountain-climbing does not stop with hardships and dangers,

则必臻乎峻岭。  
need attain high mountain.

# CLIMBER

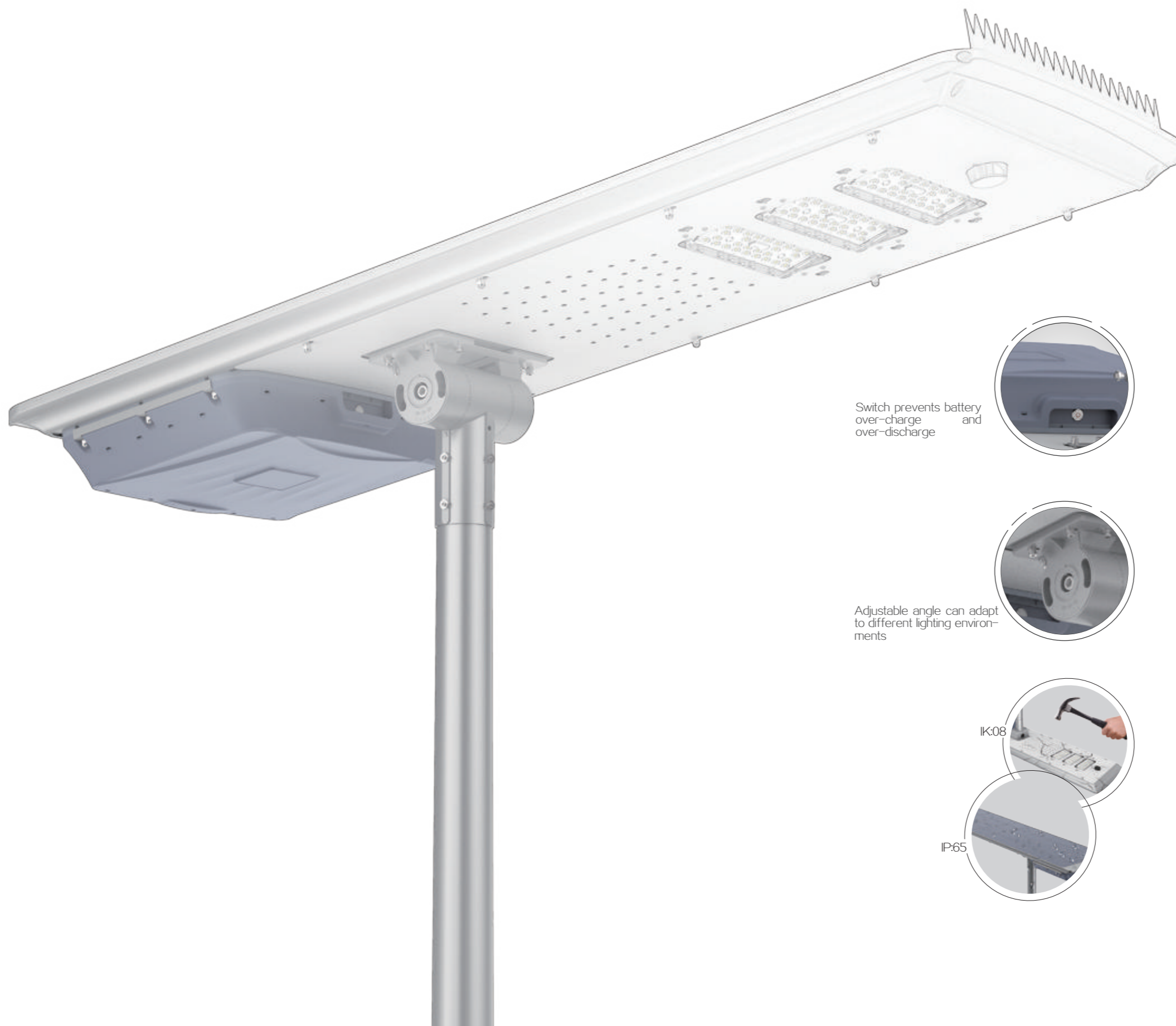
Climber integrated solar street light



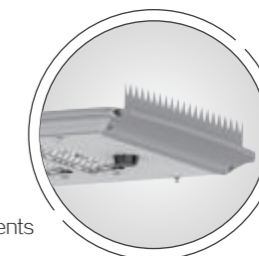
BSW-PDZ.TYN-B

BSW-PDZ.TYN-A

LAMP DISPLAY ▶▶



Fall arrestor prevents birds from landing



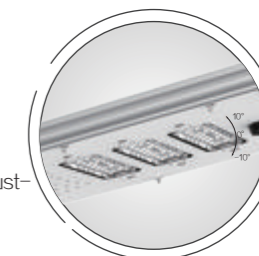
Adjust power by intelligent microwave sensor



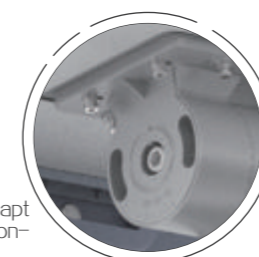
Switch prevents battery over-charge and over-discharge



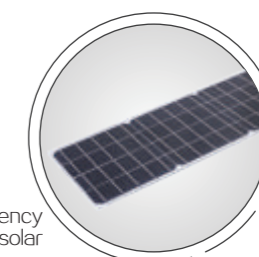
Support angle adjustment  $\pm 10^\circ$



Adjustable angle can adapt to different lighting environments



19.9% high-efficiency mono-crystalline solar panels



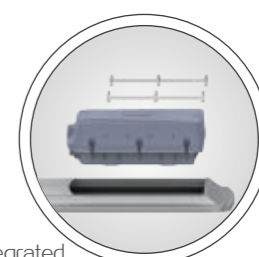
IK:08



IP:65



Removable integrated storage&control battery box



BSW-PDZ.TYN >>



**Brief but not simple**

Climber integrated solar street light is very simple, no need to bury the battery, no need to make complicated wiring or settings. All you need to do is to fix the lamp on the light pole. It will automatically turn on at night, and turn off automatically at dawn. Automatically dimming method to save energy if there is no body, but when you are close, it will immediately illuminate you with four times of the brightness.

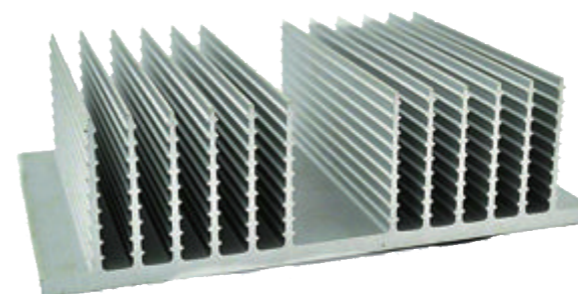


**Integrated storage&control battery box**

Use high-quality lifepo4 battery, built-in control module to stabilize voltage and limit current, intelligently detect battery voltage, to protect the lithium battery pack effectively, avoid the battery pack to be damaged when the input voltage is too high or the output voltage is too low, prolong the service life of the battery, its structure is simple, the performance is stable, and it is easy to maintain.

**Smart controller**

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

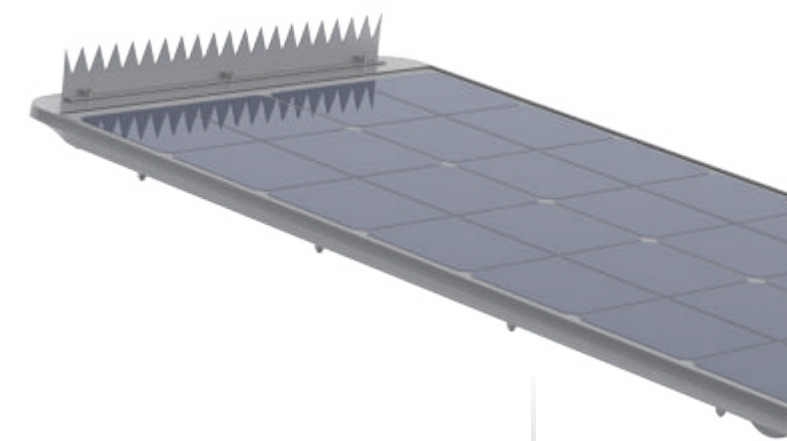


**High-efficiency radiator**

Excellent thermal conductivity, large heat exchange area, conducive to Speed up the heat exchange and take away more heat to achieve ideal heat dissipation effect.

**High-efficiency solar panel**

The selection of materials is strict. Qualified cells are selected by many times tests and sort, then adopt special lamination process to ensure the bonding strength between EVA,the tempered glass and backplane. The utility model has the advantages of good performance, long service life and high power generation efficiency.



## LAMP STRUCTURE

### Adjustable support parts

The supporting parts are made of stainless steel, cast steel. The overall structure of isotropic and steel castings is strong, which improves the production Product robustness and strong impact resistance. Available in 20° range Internal adjustment and locking, precise angle ratio: from -20° to +20° can be switched at will. Durable, windy/Rain, cold and hot, don't change your true colors.



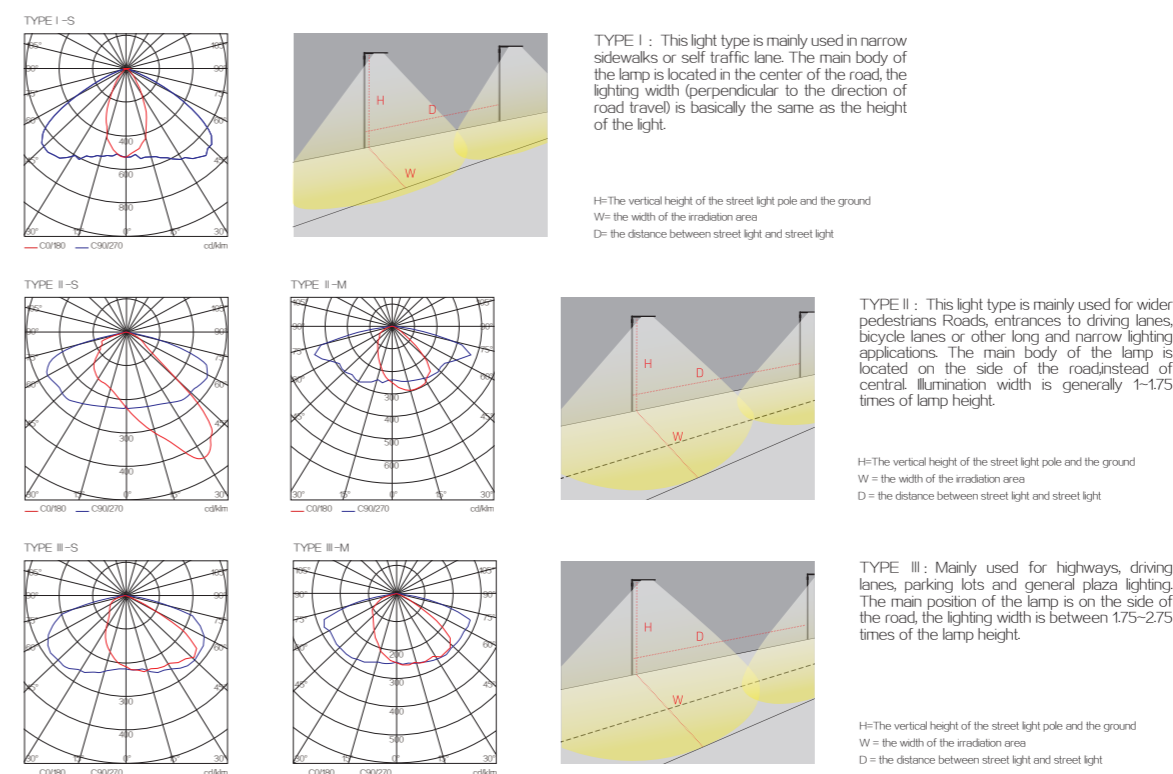
## WIND RESISTANCE TEST



### Infrared smart sensor

Intelligent power adjustment, automatic weather judgment, objects movement detection; people come and the lights are bright, people go and the lights are dimming, effectively extending the light time. Reasonable excretion law rule is embedded in microcomputer control system, multiple intelligent control methods for charging and discharging, make the entire system runs more efficient and energy-saving.

## LIGHT DISTRIBUTION CURVE



### Batwing light distribution module

Special customized patented lens with high quality aluminum substrate and sealing lens improve the lighting effect, make the lighting uniformity better and better, so improve the road lighting effect.



## SMART MICROWAVE SENSOR >>

The smart battery control system can automatically adjust the lamp output power according to the battery capacity, effectively extending lamp working time, even in continuous rainy weather, can ensure the solar street lamp work continuously.

100% brightness when there are people

50% brightness when unattended

WHEN FULLY CHARGED



Lifepo4

50% brightness when there are people

25% brightness when unattended

WHEN THE BATTERY IS NOT ENOUGH



For example: when the battery is full, the lamp standard output power (100% brightness when there are people, 25% brightness when there are no people)When the battery is not enough, reduce the lamp output power(20% brightness when there are people, 5% brightness when there are no people)

## SPECIFICATION >>

√ : 标准, / : 不适用

BSW-PDZ.TYN一体化参数表		
型号	BSW-PDZ.TYN-A	BSW-PDZ.TYN-B
<b>Product Specifications</b>		
Mono-crystalline solar panel (W)	65W	160W
Lifepo4 Lithium-ion battery capacity (WH)	512WH(12.8V/40AH)	2048WH(25.6V/80AH)
Number of LED chips (pcs)	48	96
Human infrared sensor	√	√
Battery heating	/	√
Product net weight (kg)	To be confirmed	To be confirmed
Product size (mm)	1210×420×315	1630×610×350
Controller type	Button type high-efficiency controller	Button type high-efficiency controller
<b>Product performance</b>		
Light power (W)	20W-30W	80W-100W
Color temperature (K)	5700K	5700K
Rated luminous flux (lm)	4200lm	14000lm
Operating hours (hour)	Full bright mode	11.5
	Dimming mode	46
Switch light sensor threshold (lx)	30	30
<b>Packaging parameters</b>		
Lamp packaging	Packing size (mm)	To be confirmed
	Gross weight (kg)	To be confirmed
	Packing quantity (pcs)	1
Bracket packaging	Packing size (mm)	/
	Gross weight (kg)	/
	Packing quantity (pcs)	/
<b>Ambient temperature</b>		
Charge temperature	0°C~60°C	-40°C~60°C
Discharge temperature	-20°C~60°C	40°C~60°C
Storage temperature	0°C~45°C	0°C~45°C
<b>Installation parameters</b>		
Effective projection area (f 2 t)	2.06	2.69
Actual projected area (2ft)	1.72	2.24
Wind resistance (km/h)	177	209
Suitable pole diameter (mm)	φ76	φ76

## PRODUCT SIZE >>

