



AEGIS Solar

Solar Street Light

Private and Public Solar Streetlight Solution

FEATURES

All in one solar street light DC

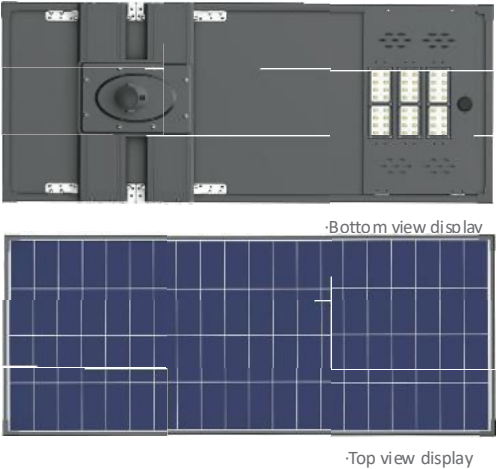
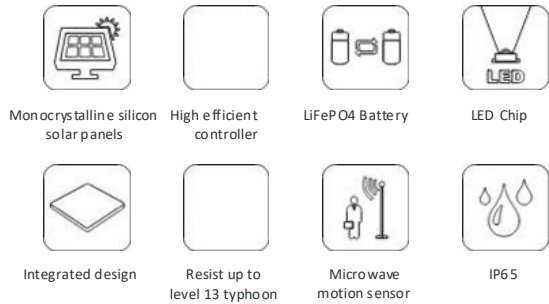
Model No.	BRT-Y-YJ-005	BRT-Y-YJ-006	BRT-Y-YJ-007
Rated Power	60W	80W	120W
System Voltage	DC12V	DC24V	DC24V
Lithium Battery	12.8V/96AH	25.6V/72AH	25.6V/108AH
Solar Panel	Monocrystalline 140W/12V	Monocrystalline 275W/36V	Monocrystalline 275W/36V
Light Source	3030/5050	3030/5050	3030/5050
Light Distribution	Bat-Wing lightdistribution 150 ° 7% °	Bat-Wing lightdistribution 150 ° 7% °	Bat-Wing lightdistribution 150 ° 7% °
Light Efficiency	≥ 2 1 0 L M / W	≥ 2 0 0 L M / W	≥ 1 9 0 L M / W
Color Temperature	3000K/4000K/5700K/6500K	3000K/4000K/5700K/6500K	3000K/4000K/5700K/6500K
CRI	≥ R a 7 0	≥ R a 7 0	≥ R a 7 0
IP Rating	IP65	IP65	IP65
IK Rating	IK08	IK08	IK08
Working Temperature	-10 ~+60	-10 ~+60	-10 ~+60
Lamp Weight	28.1kg	52.3kg	60.1kg
LED Lifespan	50000H	50000H	50000H
Controller	15A/20A	15A/20A	15A/20A
Mount Diameter	φ 8 9 m m	φ 1 0 2 m m	φ 1 0 2 m m
Lamp Dimension	1390 ×590 ×155mm	2000 ×770 ×155mm	2000 ×770 ×155mm
Package Dimension	1467 ×660 ×240mm 1pc/CTN	2077 ×840 ×240mm 1pc/CTN	2077 ×840 ×240mm 1pc/CTN
Suggested Mount Height	6m/8m	8m/10m	10m/12m

High quality craftsmanship, integrated design, and exquisite appearance

Modular design, easy to install and maintain
Intelligent energy-saving, latest microwave radar induction technology, achieving brightness adjustment
Regular discharge, dual protection of charging and discharging, and flexible switching of multiple modes

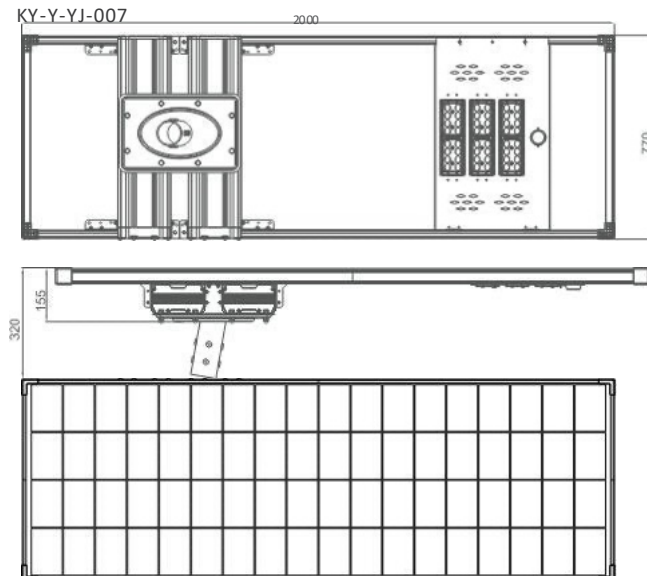
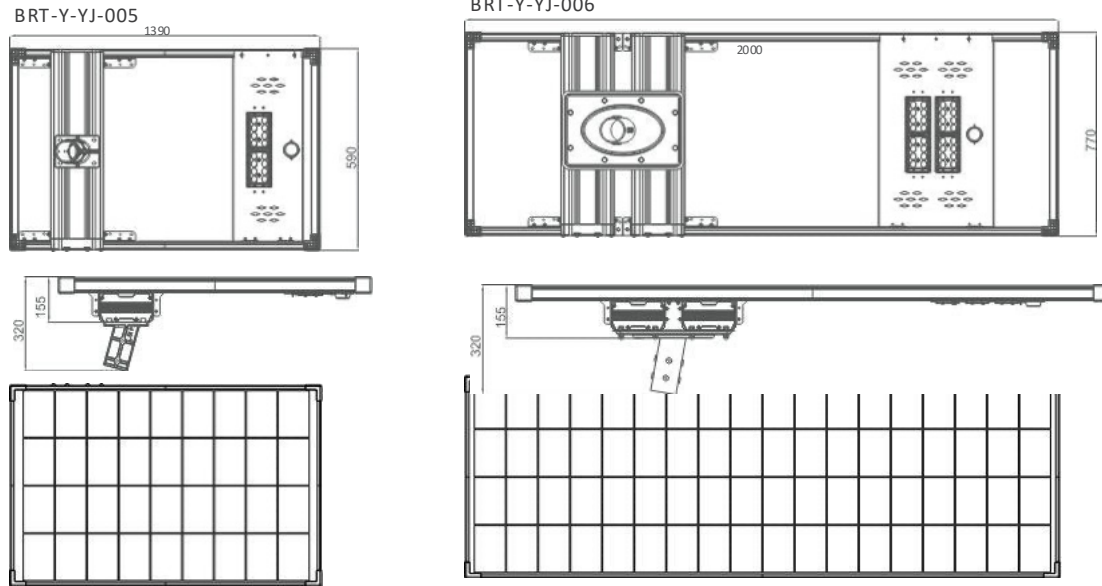


Adopting bat wing shaped light distribution design, providing uniform light distribution

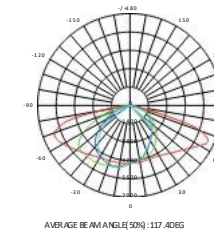
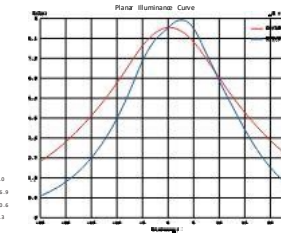
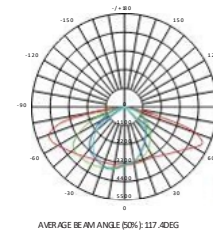
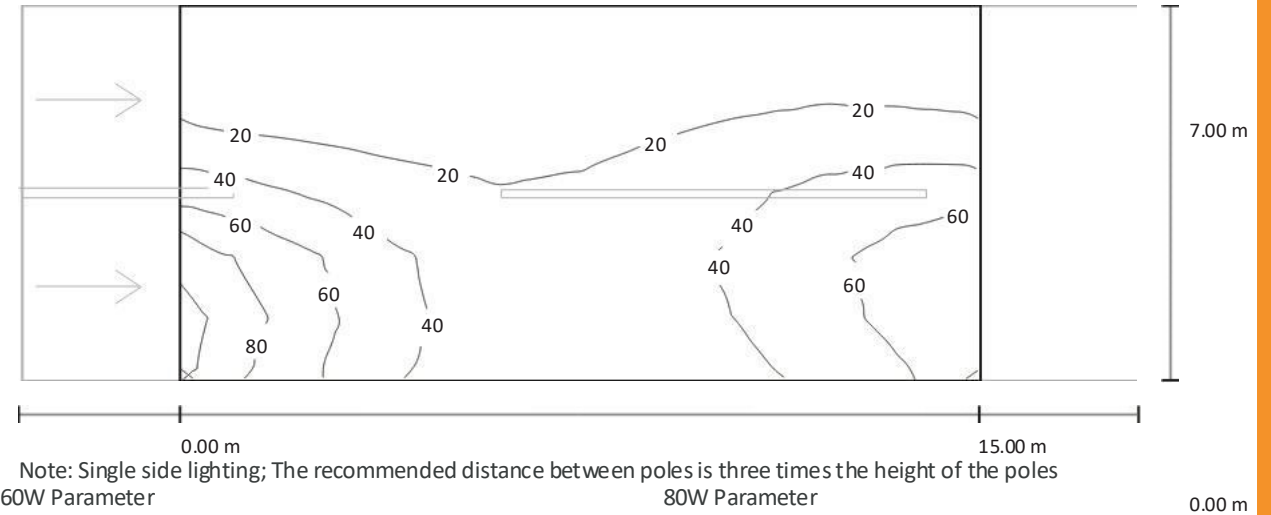


FEATURES

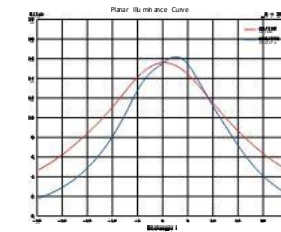
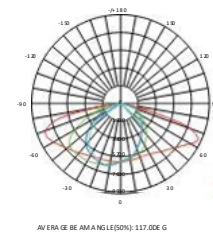
Lamp Size



Light source parameters



120W Parameter



STRUCTURE

High voltage aluminum lamp body
Made of ADC12 high-pressure die cast aluminum, corrosion-resistant, and surface treated with electrostatic spray coating

Protective angle
Protect the lamp body from impact

Microwave induction

Efficient solar panels
Efficient monocrystalline silicon with 19.9% photoelectric conversion

Intelligent controller
Smart operating systems, more efficient and energy-efficient

Efficient heat sink
Excellent thermal conductivity, large heat exchange area, accelerating heat dissipation

Light source module

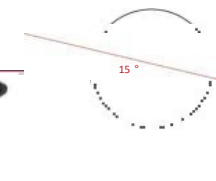
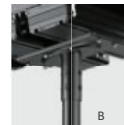
Lower cover of lamp body

Fixed angle code
Made of 304 stainless steel material, sturdy and durable

New battery module
Battery module with built-in BMS system
Prevent charging and over discharging of the battery

Connectors with optional specifications:

There are two types of connectors, A and B.
The connectors are fixed at a uniform angle of 15 ° to ensure installation accuracy.
Different connectors are selected according to different sizes.



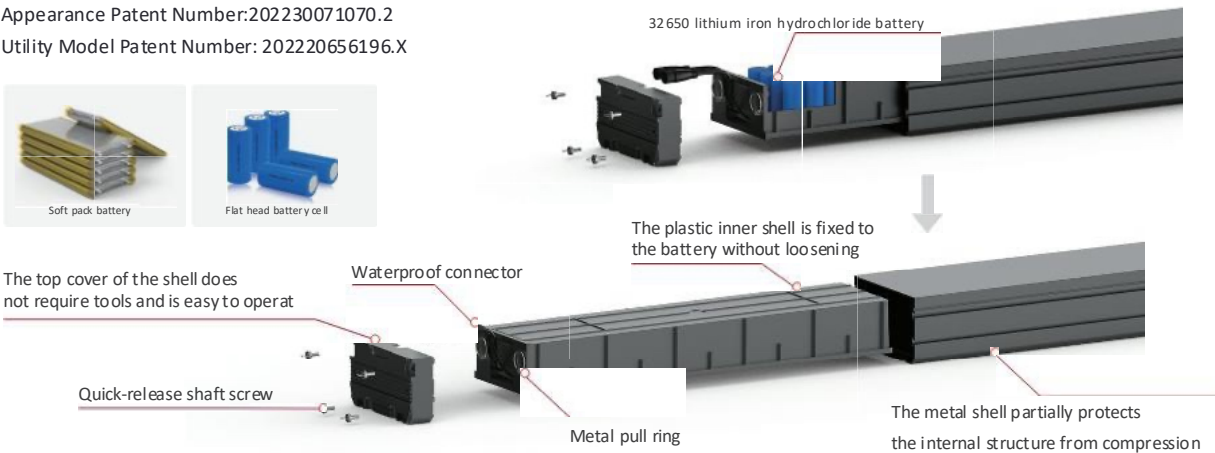
Screw design to flip the cover and release the shaft quickly

The lamp cover can be opened and closed with a large aperture and can be opened at any angle,
Quick shaft releasing screw design, no need for tools, can be opened manually with bare hands, classic shaft design, rotating to open, toolfree operation, easy to repair, maintain, simple installation, convenient maintenance operation, no constraints.

PORTABLE POWER MODULE DESIGN

Utility model patented product: Portable power module, with high-strength plastic inner shell to fix the battery and prevent it from loosening easily;
The shell is made of metal material to protect the internal structure of the battery; Soft pack batteries/flat headed cells can be installed;
Built in BMS system, intelligent battery management, preventing overcharging and discharging, and extending service life;
The top cover adopts quick detachable shaft screws and a modular design; No tools for installation and maintenance is required, convenient and fast.

Appearance Patent Number:202230071070.2
Utility Model Patent Number: 202220656196.X



Built in BMS battery management system:
The battery management system requires high performance, reliability, and safety. This system provides all the functions of such key components in the battery management system, such as precise battery voltage, temperature monitoring, battery balancing, and extensive system diagnosis by detecting the voltage, charging and discharging current, and environmental temperature of each battery. Realize protection functions such as overcharging, over discharging, discharging overcurrent, short circuit, charging overcurrent, and temperature protection for batteries, and adjust the delay of overcharging, over discharging, and overcurrent protection through external capacitors. Measure, read, and diagnose the parameters of battery voltage, temperature, current, and other data with the street light controller.

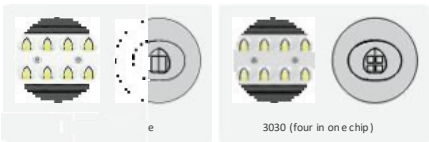
OPTICS AND LED SPECS

Optional light source



specifications of chips available:

- 1 adopts 7070 light source or 3030 (four in
- 1 with bat wing shaped lens to enhance light
- 3 niform distribution of light, and ensure light
- 7m ciency;



100% use of solar energy, no consumption of fossil fuels, no air pollution working mode

PS: The intelligent system will prioritize according to the settings

			
			
			
OFF TIME			

Intelligent power regulation

The intelligent battery control system can automatically adjust the output power of the lighting fixtures based on the battery storage capacity, effectively extending the working time of the lighting fixtures. Even in continuous cloudy and rainy weather, it can ensure the continuous operation of solar street lights.

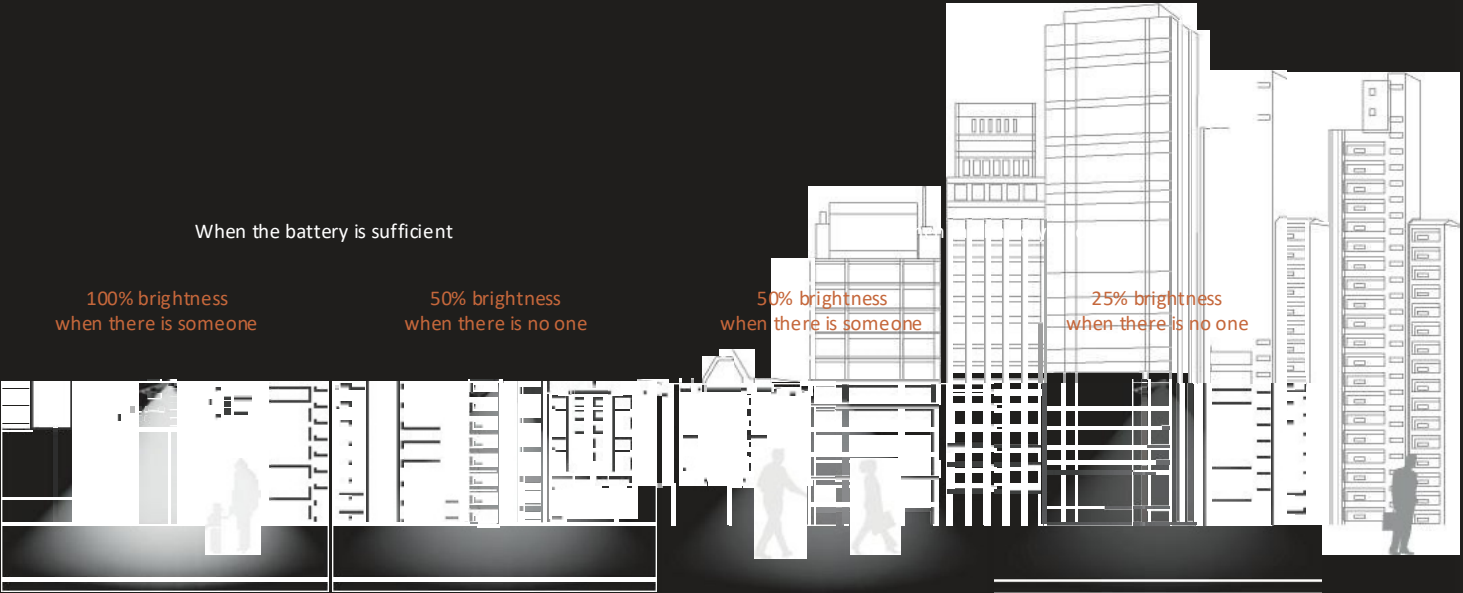
When the battery is sufficient

100% brightness
when there is someone

50% brightness
when there is no one

50% brightness
when there is someone

25% brightness
when there is no one



Optional light source

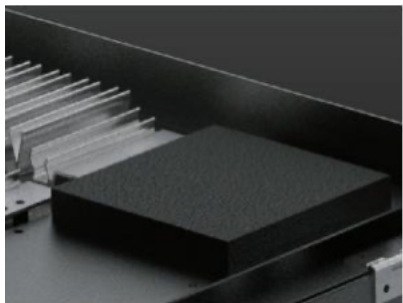
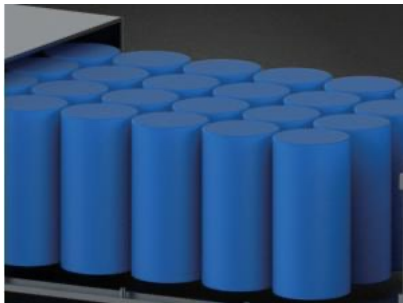
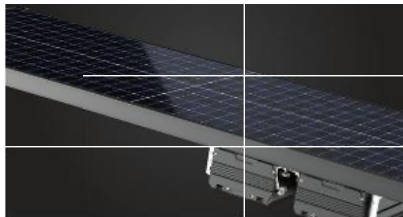
The optical system of the lamp is composed of single or multiple LED modules, each of which realizes multiple functions such as light distribution, sealing, and heat dissipation; Each LED module has a bat wing shaped light distribution for road lighting needs. The module can be paired with various PC lenses to achieve different light distribution to meet the lighting needs of the road surface; High degree of product standardization, interchangeable, convenient for product upgrading or maintenance, with a protection level of IP66; multiple color temperatures to choose from, such as 2200k, 2700k, 3000k, 4000k, 5700k, etc; Color rendering The module is replaceable, with low maintenance and repair costs, and is convenient and fast.



Product model	KY-LMZ-A	KY-LMZ-B	KY-LMZ-C
Power	10w	10w	10w
Light source	/W/LEDmodule	/W/LEDmodule	/W/LEDmodule
Number of LED chips	90Pcs	28Pcs	16Pcs
Serial parallel relationship	/P	/P	/P
Input voltage	/V	/V	/V
Color temperature	3000K/4000K/5000K/5700K	3000K/4000K/5000K/5700K	3000K/4000K/5000K/5700K
Luminous flux	/Lm	/Lm	/Lm
Life	50000H	50000H	50000H
Color rendering index	≥ 70	≥ 70	≥ 70
IP level	IP66	IP66	IP66
Product size	/mm	/mm	/mm
Product weight	/kg	/kg	/kg

! Warning: To prevent accidents that threaten personal safety such as module damage, falling, electric shock, and fire, please strictly follow the instructions for installation and use. Do not modify lighting fixtures or replace components on your own.





Efficient solar panels

Strict material selection, after multiple tests;
Sort and select qualified battery cells;
Adopting a special lamination process;
Ensure EVA and tempered glass;
The strength of the adhesive strength of the backboard;
Improve the performance of solar panels;
Long lifespan and high power generation efficiency.

Lithium iron phosphate battery

A cycle life of over 1000 times, safe to use, no fire or explosion; High temperature resistance, large capacity, green and environmentally friendly, non-toxic, and pollution-free.

Intelligent controller

Intelligent power regulation, automatic weather judgment,
Reasonable excretion pattern planning embedded in microcomputer control system;
Multiple intelligent control methods for charging and discharging make the entire system operate more efficiently and energy-efficient.





Microwave induction design

Automatically control the lighting of the light source through an induction module, using the most advanced planar antenna; Effectively suppressing the interference of high-order harmonics and other clutter, with strong reliability, safety and convenience, and intelligent energy-saving.



Bat wing shaped polarizing lens configuration

The latest patented technology for light sources, utilizing special lenses The structure realizes the formation of bat wing shaped light emitted by the light source, greatly improving the lighting effect, resulting in better uniformity of illumination and better enhancement of road lighting effect.



Reinforced lamp pole flange

Used for connecting between pipe ends, Capable of withstanding extreme pressure, corrosion-resistant, acid and alkali resistant, with a long service life; Smooth surface, high temperature resistance, beautiful appearance, and strong texture performance.

