

SOKOYO[®]



MATRIX
KY-Y-YG Version 2022 1.0
ALL IN ONE SOLAR STREET LIGHT



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MATRIX

ALL IN ONE SOLAR STREET LIGHT



KY-Y-YG-002



KY-Y-YG-003



KY-Y-YG-004



KY-Y-YG DC

High-quality craftsmanship, integrated design, beautiful appearance;
 Modular design for easy installation and maintenance;
 Intelligent dimming, lighting on demand, reducing light decay, effectively extending the life of the whole lamp;
 The bat-wing light distribution design provides uniform light distribution.

Appearance Patent Number:202230069792.3



- 
Monocrystalline solar panel
- 
High efficient controller
- 
LiFePO4 battery
- 
LED chip
- 
Integrated design
- 
Resist up to level 13 typhoon
- 
Integrated battery and control unit design
- 
IP65

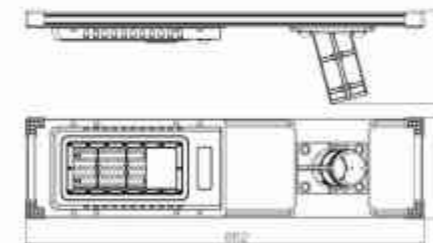
TECHNICAL PARAMETER

All in One Solar Street Light DC

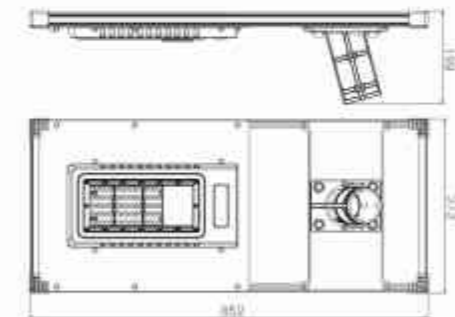
Product Models	KY-Y-YG-002	KY-Y-YG-003	KY-Y-YG-004
Rated Power	10W	15W	20W
Light Source	3.2V	3.2V	3.2V
Lithium Battery	3.2V/36AH	3.2V/72AH	3.2V/120AH
Solar Panel	Monocrystalline-5V/25W(192x840)	Monocrystalline-5V/50W(380x840)	Monocrystalline-5V/70W(380x1100)
Type of Light Source	3030	3030	3030
Light Distribution Type	Bat-Wing light distribution(150°x65°)	Bat-Wing light distribution(150°x65°)	Bat-Wing light distribution(150°x65°)
Light Efficiency	>150LM/W	>150LM/W	>150LM/W
Color Temperature	5700K	5700K	5700K
CRI	>Ra70	>Ra70	>Ra70
IP Grade	IP65	IP65	IP65
IK Grade	IK08	IK08	IK08
Working Temperature	-10°C~+60°C	-10°C~+60°C	-10°C~+60°C
Working Humidity	10%~90%	10%~90%	10%~90%
LED Lifespan	>50000H	>50000H	>50000H
Controller	3.2V/15A	3.2V/15A	3.2V/15A
Mounting Diameter	φ60mm	φ60mm	φ60mm
Lamp Dimension	852 x 216 x 65 mm	852 x 373 x 65 mm	1112 x 373 x 65 mm
Suggested Mounting Height	3m/4m	4m/5m	5m/6m
Lamp Weight	7.0 kg	10.8 kg	12.6 kg
Package Dimension	917 x 276 x 120 mm	917 x 433 x 120 mm	1172 x 433 x 120 mm
Holder Packing Dimension	465 x 405 x 155 mm	465 x 405 x 155 mm	465 x 405 x 155 mm

LAMP DIMENSION

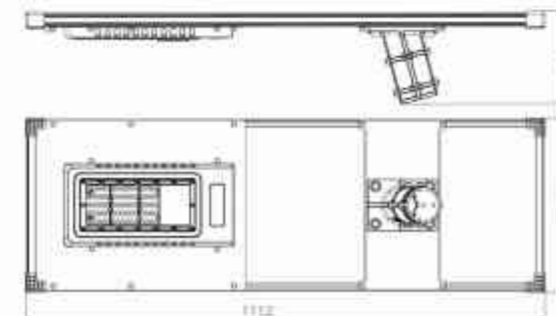
KY-Y-YG-002



KY-Y-YG-003



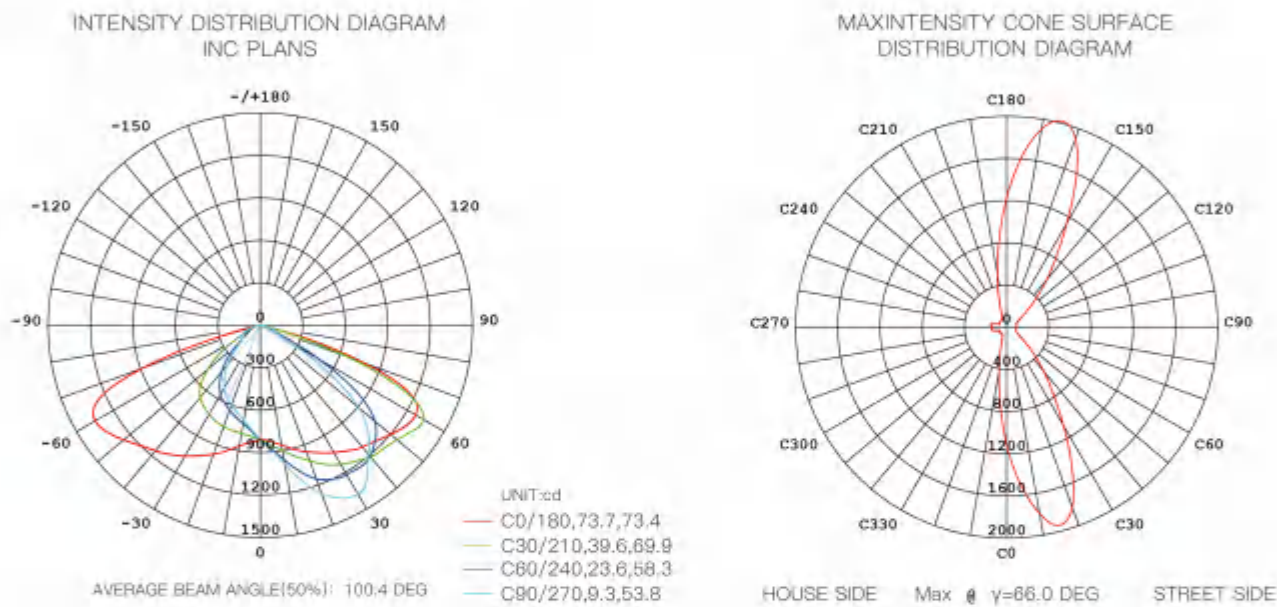
KY-Y-YG-004



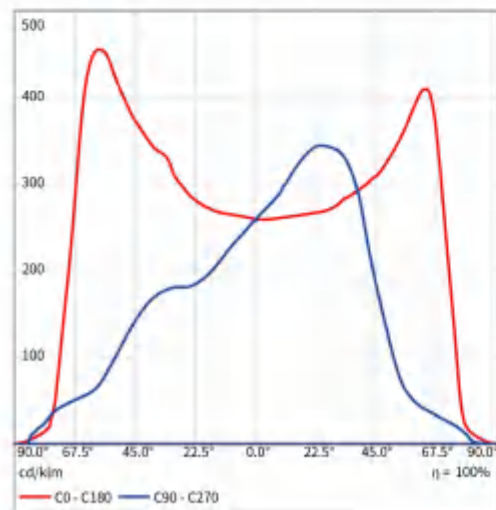
LED PARAMETER

Street Light Intensity Test Report(20W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	KY-Y-YG-003	Eff:166.64 lm/W			
NOMINAL POWER (W)	20	Imax (cd)	1909	η street up (%)	0.0
RATED VOLTAGE (V)	3.2	LOR (%)	100.0	η street down (%)	69.2
NOMINAL FLUX (lm)	3332.85	TOTAL FLUX (lm)	3333	η house up (%)	0.0
LAMPS INSIDE	1	MAXIMUM θ (C, γ)	160°, 66.0°	η house down (%)	30.8
TSET VOLTAGE (V)	2.9	η up (%)	0.0	76 FLASHAREA (m ²)	0.00100
		η down (%)	100.0	STL	16.253



LIGHT DISTRIBUTION DATA 1 / LIGHT DISTRIBUTION CURVE (LINE COORDINATE)

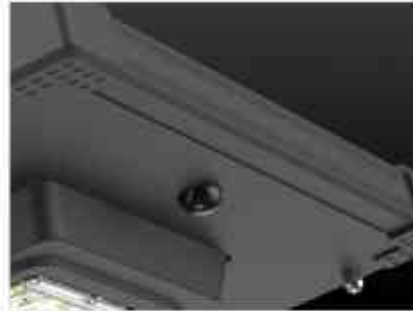


STRUCTURE DISPLAY



Light control storage three-in-one module





High Efficiency Solar Panels

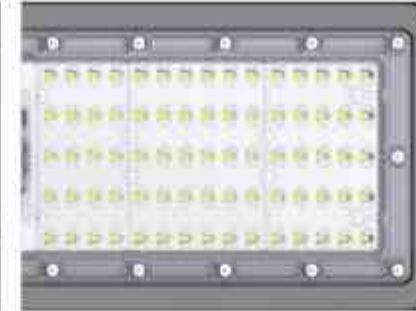
Strict selection of materials, after many tests, sorting, selection of qualified cells.
The special lamination process is adopted to ensure the adhesive strength of EVA, tempered glass and backplane.
The solar panel has good performance, long life and high power generation efficiency.

Lithium iron phosphate battery

The cycle life is more than 1000 times, safe to use, no fire and no explosion; high temperature resistance, large capacity, green and environmental protection, non-toxic and non-pollution.

Intelligent microwave induction

Actively emit very weak microwaves. If a person passes through this LED street light, the detector in the lamp can receive the microwave reflected by the human body to brighten the light, and adjust the light to prolong the lighting time.



Respirator design

While waterproof and breathable, it can balance pressure, reduce fogging, frost, eliminate moisture, and can also assist in heat dissipation, high and low temperature resistance, anti-corrosion, anti-oil, anti-UV and other functions.

Batwing Polarized Lens Configuration

The latest patented light source technology, through the special structure of the lens, realizes the shape of the light emitted by the light source to form a bat wing shape, which greatly improves the lighting effect, makes the illumination uniformity better, and better enhances the road lighting effect.

Reinforced pole flange

Used for connection between pipe ends, it can withstand extreme pressure, corrosion resistance, acid and alkali resistance, long service life, smooth surface, high temperature resistance, beautiful appearance and strong texture performance.



APPLICATION SCENARIOS



Streets, trails, bike paths



Residential street



Commercial street, office complex



Parks, squares, amusement parks



Rural/urban road



Highways and Ring Roads

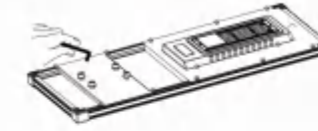
LIGHT POLE ACCESSORIES

The following is only a schematic diagram of the installation. The height and installation method of the light pole can be adjusted appropriately according to the needs of the site.

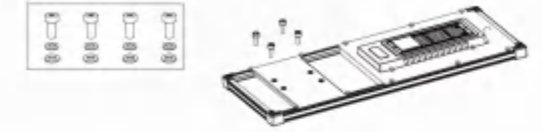


INSTALLATION NOTES

① Use a hexagonal wrench to loosen the four hexagonal bolts.



② Separate the four hexagon bolts, shrapnel, and flat washers from the lamp body.



③ Align the fixing holes of the sleeve with the screw holes.



④ Use a hexagonal wrench to fix the four hexagonal bolts, shrapnel and flat washer to secure the sleeve.



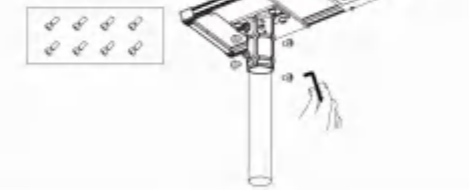
⑤ Align the lamp with the lamp pole.



⑥ Adjust the left and right directions.



⑦ Use the allen wrench to fix the eight allen headless set screws and nuts to fix the lamp.



⑧ The effect after lamp installation.



Precautions:

1. The working voltage of this type of lamp is based on the product specification and product label;
2. All wiring must comply with national installation standards, and all joints should be connected and waterproof;
3. The maintenance or replacement of lamps and lanterns requires qualified personnel to replace them to avoid danger;
4. The controller modulation should be operated according to the instruction manual.