

SOKOYO[®]



NOVA

KY-YF.TYN DC

ALL IN ONE SOLAR STREET LIGHT



NOVA DC

- High quality workmanship, integrated design
- Modular pluggable technology providing, easy installation and maintenance
- Intelligent dimming, customized illumination, lower depreciation, longer lifespan
- Batwing shaped design providing the best uniform illumination

Appearance Patent No. 201830099047.7

Utility Model Patent No. 201820733410.3

Utility Model Patent No. 201820723000.8



High efficiency
mono solar panel



High efficiency
controller



Long cycle
LiFePo4



Philips LED



All in one design



Resistant to
Typhoon



Microwave
Sensor



IP65

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website product introduction



Technical Parameters

All in one solar street light DC

Model	KY-YF.TYN-003-A.020	KY-YF.TYN-003-A.030	KY-YF.TYN-003-A.040
Rated Power	20w	30w	40w
Input Voltage	DC30V~48V	DC30V~48V	DC30V~48V
Lithium Battery	LiFePo4 12.8V/24AH	LiFePo4 12.8V/30AH	LiFePo4 12.8V/42AH
Solar Panel	Monocrystalline: 18V/62W (410x1053)	Monocrystalline: 18V/62W (410x1053)	Monocrystalline: 18V/62W (410x1053)
Chip Type	Philips 3030	Philips 3030	Philips 3030
Led Light Source	Bat-wing type (150°x75°)	Bat-wing type (150°x75°)	Bat-wing type (150°x75°)
Efficiency	179LM/W	179LM/W	160LM/W
Color Temperature(K)	3000K/4000K/5000K/5700K	3000K/4000K/5000K/5700K	3000K/4000K/5000K/5700K
Color Rendering Index	≥Ra70	≥Ra70	≥Ra70
IP Rate	IP65	IP65	IP65
IK Rate	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	30W/10A	30W/10A	40W/10A
Installation Diameter	Φ60mm	Φ60mm	Φ60mm
Dimension	1100 x 423 x 207 mm	1100 x 423 x 207 mm	1100 x 423 x 207 mm
Installation Height	5m/6m	6m/7m	6m/7m/8m
Warranty	3years/5years	3years/5years	3years/5years

Model	KY-YF.TYN-001-A.060	KY-YF.TYN-002-B.080
Rated Power	60w	80w
Input Voltage	DC30V~48V	DC30V~48V
Lithium Battery	LiFePo4 12.8V/48AH	LiFePo4 25.6V/24AH
Solar Panel	Monocrystalline: 18/120W (505x1320)	Monocrystalline: 36V/135W (505x1470)
Chip Type	Philips 3030	Philips 3030
Led Light Source	Bat-wing type (150°x75°)	Bat-wing type (150°x75°)
Efficiency	153LM/W	150LM/W
Color Temperature(K)	3000K/4000K/5000K/5700K	3000K/4000K/5000K/5700K
Color Rendering Index	≥Ra70	≥Ra70
IP Rate	IP65	IP65
IK Rate	IK08	IK08
Working Temperature	-10°C~+60°C	-10°C~+60°C
Working Humidity	10%~90%	10%~90%
LED Lifespan	>50000H	>50000H
Controller	80W/10A	80W/10A
Installation Diameter	Φ76mm	Φ76mm
Dimension	1357 x 518 x 226 mm	1507 x 518 x 226 mm
Installation Height	7m/8m/9m	8m/9m
Warranty	3years/5years	3years/5years

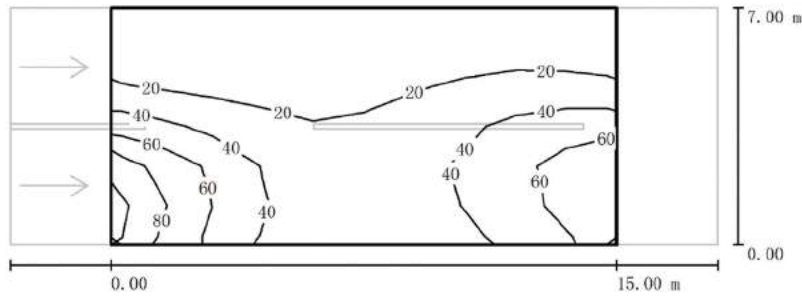
TYPE OF LIGHT SOURCE

- Phillips top advanced LED chips.
- Batwing shaped illumination providing best uniformity.
- Efficiency, lifespan and reliability comply with international standards.
- Color temperature adjustable with season alternation.
- Flexible conversion From warm 3000 to cold 6500K.
- Designed for different illumination environments.



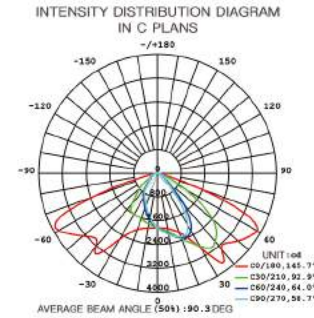
Light Parameters

Road simulation report 3030



Remarks: Symmetrical lamp arrangement; pole spacing is recommended to be three times longer than lamp height.

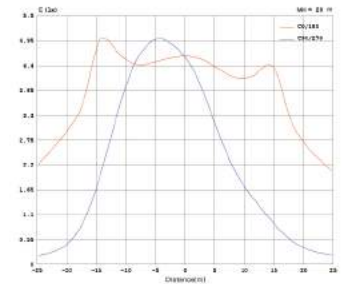
20W



Grid: 10x6 Points

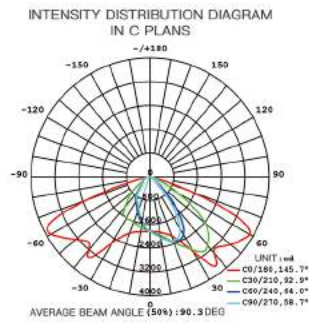
E_{av} [lx] 10.6
 E_{min} [lx] 6.7

Planar Illuminance Curve



E_{max} [lx] 12.3
 $u0$ 0.4

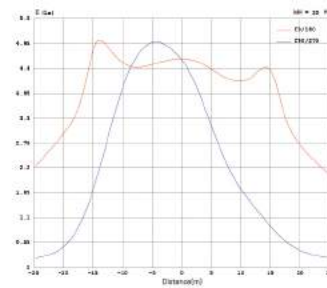
30W



Grid: 10x6 Points

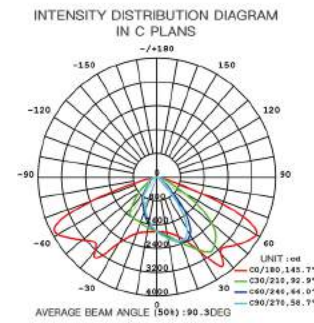
E_{av} [lx] 11.8
 E_{min} [lx] 8.1

Planar Illuminance Curve



E_{max} [lx] 15.7
 $u0$ 0.42

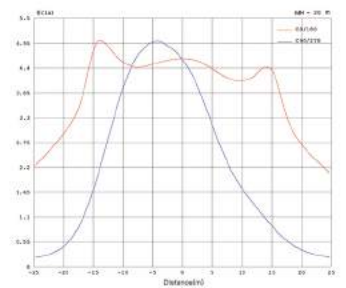
40W



Grid: 10x6 Points

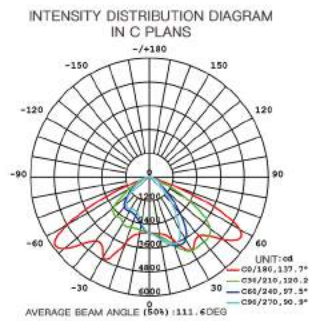
E_{av} [lx] 12.2
 E_{min} [lx] 7.3

Planar Illuminance Curve



E_{max} [lx] 16.4
 $u0$ 0.4

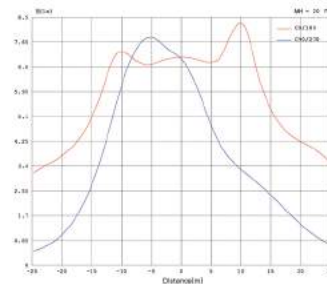
60W



Grid: 10x6 Points

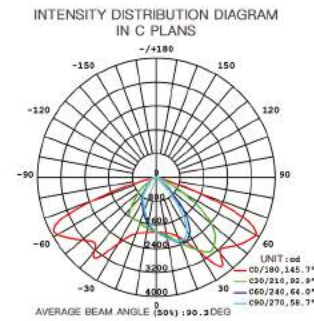
E_{av} [lx] 20.3
 E_{min} [lx] 15.4

Planar Illuminance Curve



E_{max} [lx] 35.4
 $u0$ 0.43

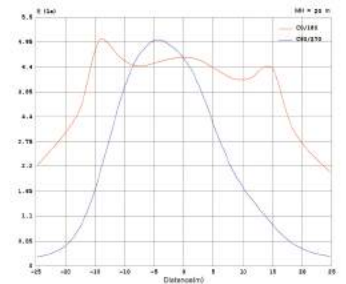
80W



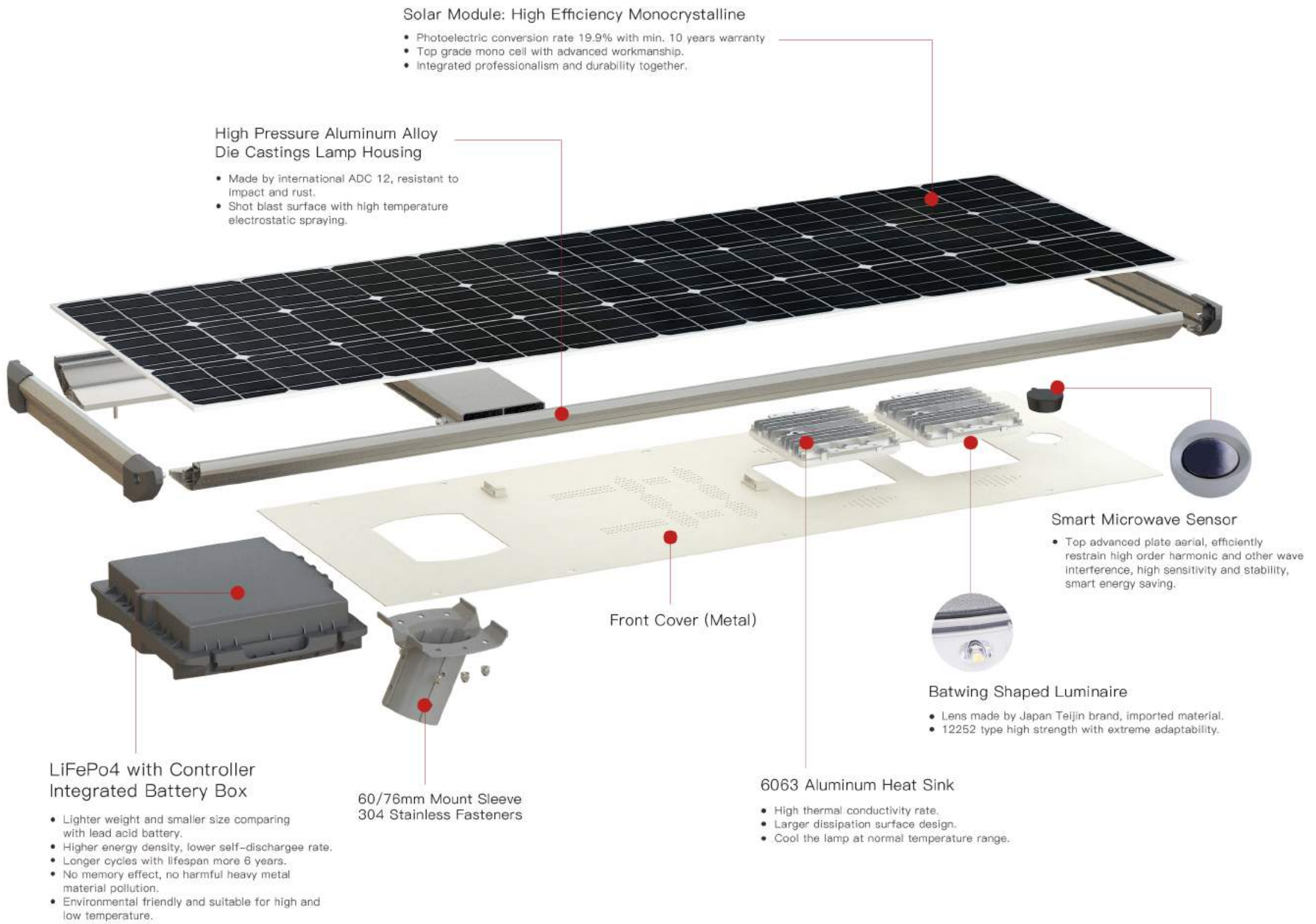
Grid: 10x6 Points

E_{av} [lx] 24.6
 E_{min} [lx] 14.7

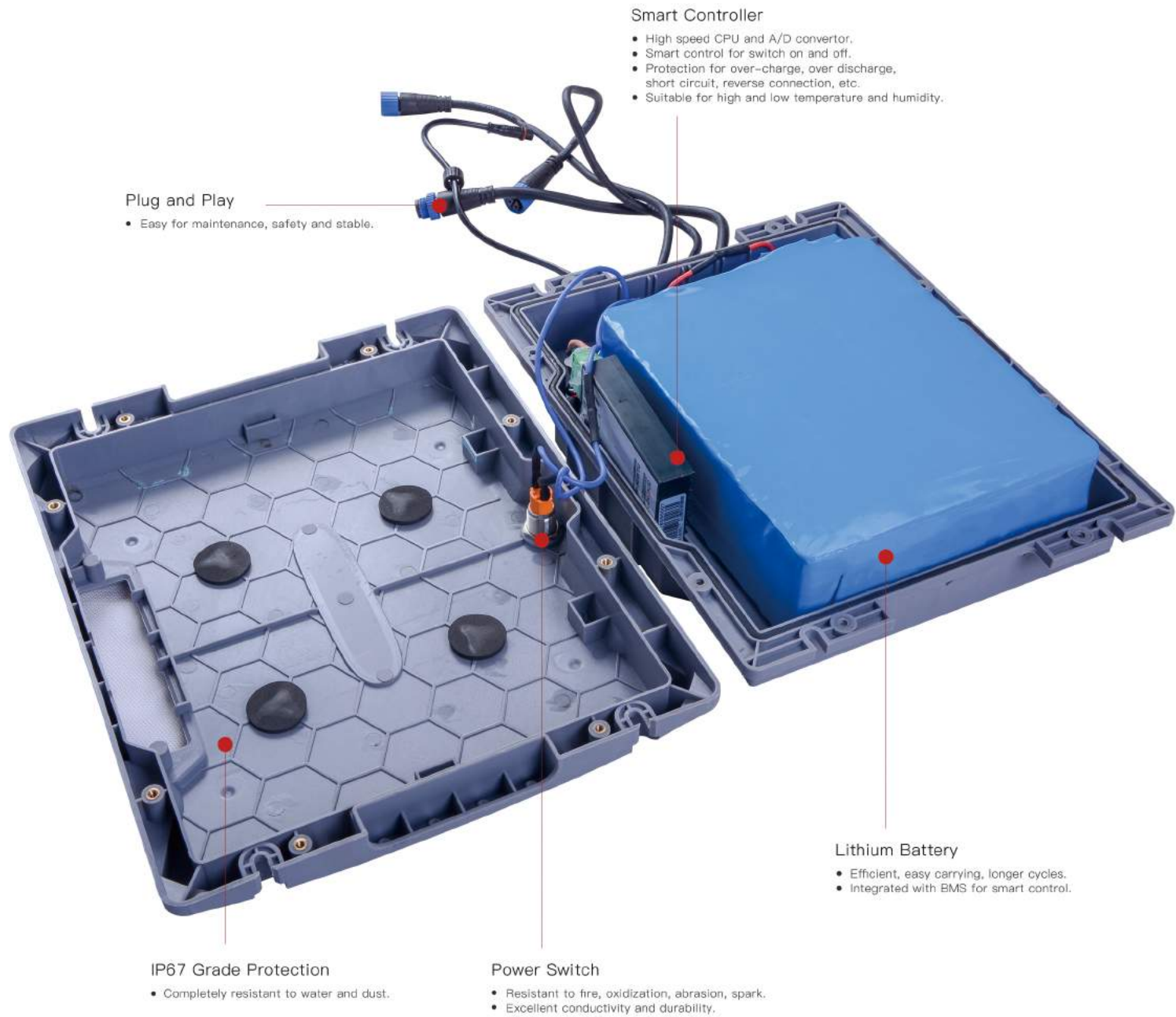
Planar Illuminance Curve



E_{max} [lx] 37.9
 $u0$ 0.4



Battery Pack



Note: Different battery Capacity for Different Types

Microwave induction

More stable than PIR sensor.
Apply the most advanced plate aerial.
Restrain high order harmonic and other wave interference.
High sensitivity and stability, smart energy saving.



All in one design

Integrated with solar panel, luminaire, controller, lithium battery in one system.
Free of complex wiring work comparing with traditional separated type.
Save lots of considerable physical work and installation cost.
Improved and enhanced performance than others.



High efficiency Controller

Smart energy management for 365 days working.
Automatically sense weather conditions and calculate reasonable work model.
Built in microcomputer smart control and calculation for charge, discharge and other work data, ensuring reliable and efficient system running.
Efficiency more than 96%, make the best use of solar panel and battery.



Lens Type Batwing shaped

Dedicated and customized patent lens for road lighting.
Improved largely illumination performance and better uniformity.
UV resistance material, resistant to high and low temperature.
IP68 waterproof, adapt to wider humidity range.



LiFePo4 with Controller Integrated Battery Box

Lighter weight and smaller size comparing with lead acid battery.
Higher energy density, lower self-discharge rate.
Longer cycles with lifespan more 6 years.
No memory effect, no harmful heavy metal material pollution.
Environmental friendly and suitable for high and low temperature.

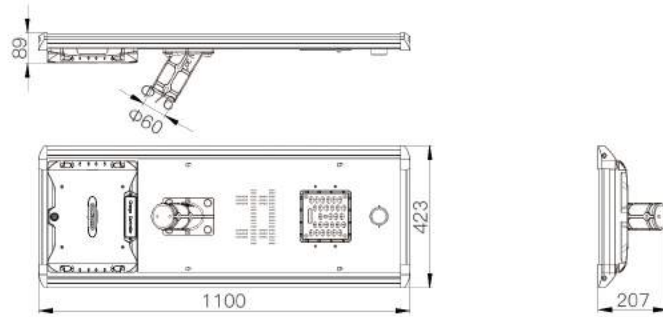


Reinforced Lamp Holder

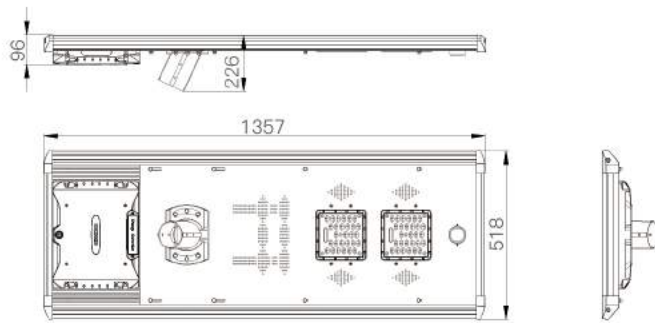
Various slope options, 15°, 30°, 45°.
High strength steel material, resistant to more than 36m/s wind.
304 grade stainless steel bolts and nuts, resistant to rust.



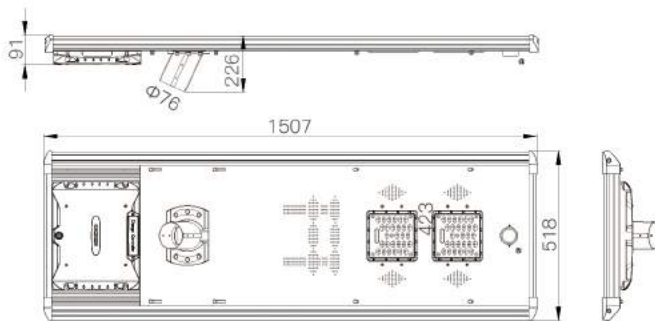
Lamp Size



KY-YF-TYN-003



KY-YF-TYN-001



KY-YF-TYN-002

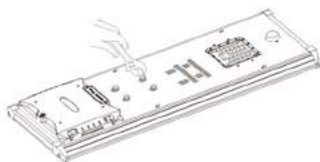
AVAILABLE COLOR



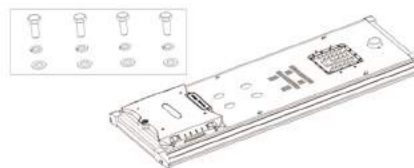
Note: The color is regular color and can be customized

Installation Instructions

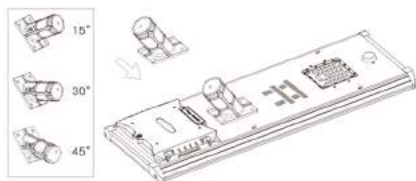
- ① Loosen four bolts on front cover.



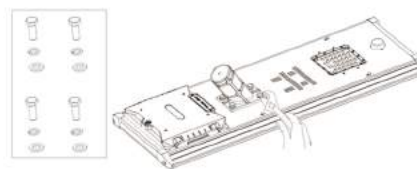
- ② Separate the four sets of bolts, spring washer, flat washer from the cover.



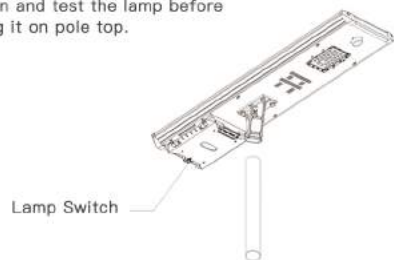
- ③ Put the sleeve at four mounting holes. Sleeve options depend on specific location and customers.



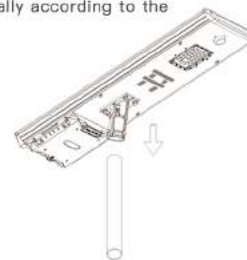
- ④ Fasten it with the four sets bolts, spring washers and flat washers.



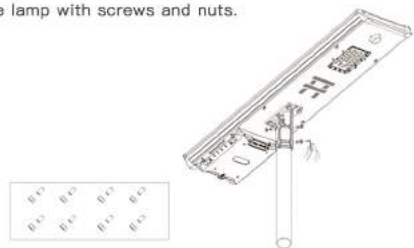
- ⑤ Switch on and test the lamp before mounting it on pole top.



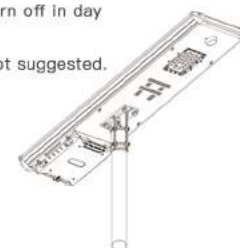
- ⑥ After testing, adjust horizontally according to the best solar direction.



- ⑦ Fix the lamp with screws and nuts.



- ⑧ LED lamp will automatically turn off in day time for charging. Installation at dusk or night not suggested.



Remarks:

1. Products specification depend on specific model.
2. All wiring are waterproof and comply with international standards.
3. Only qualified personnel maintain or repair to avoid damage.
4. Controller testing and setting according to manual instructions.
5. Installation site should be away from shadow of tree or building.
6. Regular clean suggested for dusty area to maximize the solar generation.
7. Lamp switch should turn off during transit.

Package Display



KY-YF-003 MIN

TOOL ITEM	SPECIFICATION	QTY	Package Dimension:
Open end wrench	19MM	1	L1160*W480*H150mm
L-type hex wrench	5MM	1	
Open end wrench	17MM	1	
Outer hexagonal bolt	M12*30	4	
Hexagon socket set screws	SUS304 M10*1.5 L20	8	
Hexagonal thin nut	SUS304 M10*1.5 H5	8	

KY-YF-001 MID

TOOL ITEM	SPECIFICATION	QTY	Package Dimension:
Open end wrench	10MM	1	L1410*W580*H150mm
L-type hex wrench	8MM	1	
Hexagon cap nuts	M6	10	
socket cap screw	SUS304 M8*16	8	

KY-YF-002 GINT

TOOL ITEM	SPECIFICATION	QTY	Package Dimension:
Open end wrench	10MM	1	L1570*W580*H150mm
L-type hex wrench	8MM	1	
Hexagon cap nuts	M6	10	
Hex Bolts	SUS304 M8*16	8	