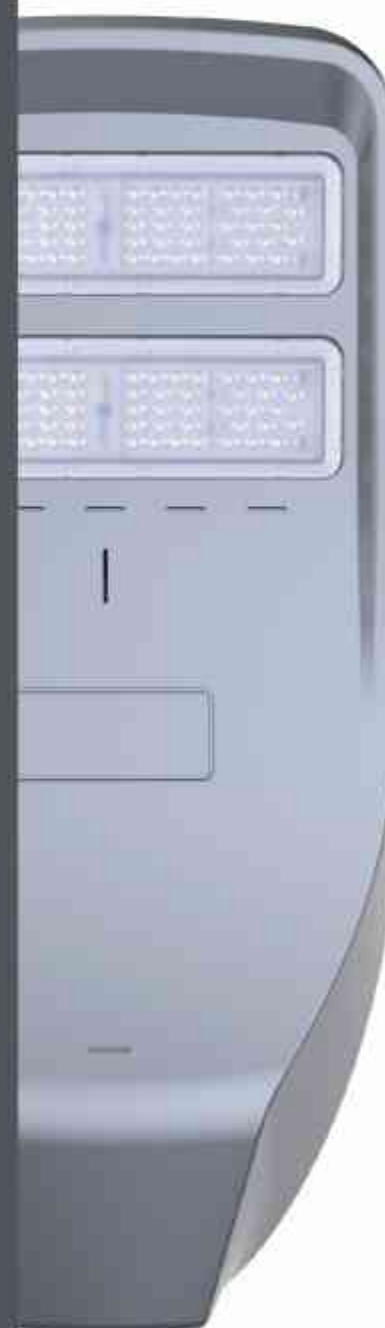


**SOKOYO®**

**CONCO SERIES**  
Split Style Street Light

SOLAR/LED STREET LIGHT



Appearance Patent Number : 201730543760.1



China free hot line: 0086-514-8216-6606

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Factory address: #3 district, Guoji Industrial park, North suburb, Yangzhou, Jiangsu Province, China

Sales Headquarter: Floor 4, Building 2, Guotai Building, No. 440, West Wenchang Road, Hanjiang District, Yangzhou city



## INTELLIGENT AND EFFICIENT ENERGY CONSERVATION SIMPLE WITH FASHION

Harmony series LED street light combines green lighting, energy saving and environmental protection, as well as the decoration of the city landscape and is designed as a simple and smooth shape, compact LED street lamp, which is suitable for the road lighting in cities, villages, industrial parks and other places.



### Batwing Lens

The lens is Teijin brand.1225Z is of high strength and high adaptability.



### Installation reliability design

φ60mm sleeve, built-in hoop design, showing product hidden characteristics, internal structure to strengthen safety and reliability.

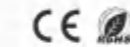
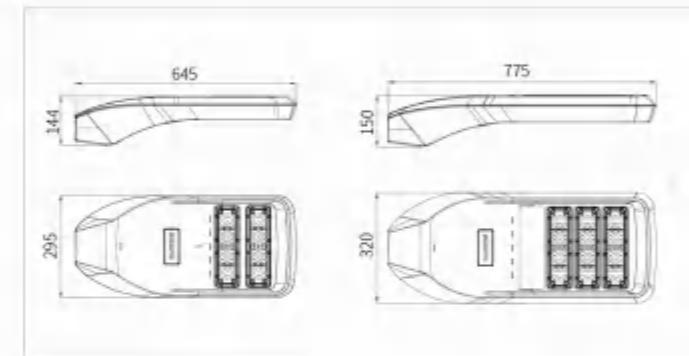


### Radiator hole design

Good heat dissipation, ADC12 high pressure die-cast aluminum molding, impact resistance, corrosion resistance, electrostatic spray treatment after shot blast.



## KY-F-HX <sup>DC</sup> CONCO Split style solar street light



Unique thermal modules ensures the best working temperature of the light source;  
International famous brand LED chip, uniform illumination, no glare;  
No need to open the cover for installation and disassembly, easy to operate;  
Pluggable circuit connection, simple maintenance;  
Patent design, novel and fashionable.

Product Model	KY-F-HX-001	KY-F-HX-002	KY-F-HX-003
Rated Power	60W	120W	180W
System Voltage	DC12V	DC24V	
Lithium Battery	12.8V/60AH 768WH	25.6V/60AH 1536WH	25.6V/84AH 2150.4WH
Suggested Solar Panel	180W/18V	240W/36V	360W/36V
Light Source	LUMILEDS 3030/5050		
Light Distribution	Bat-Wing light distribution (150°x75°)		
Light Efficiency	≥130LM/W		
Color Temperature	3000K/4000K/5700K/6500K		
CRI	≥Ra70		
IP Rate	IP66		
IK Rate	IK08		
Working Temperature	-10°C~+60°C		
Product Weight	4.6kg	7.6kg	
LED Lifespan	>50000H		
Controller	15A	20A	
Mount Diameter	φ60mm		
Lamp Dimension	645×295×144mm	775×320×150mm	
Package Dimension	695×350×200mm (1pc/CTN)		
Suggested Mount Height	8m-10m	10m-12m	

**SOLAR PANELS ARE OPTIONAL**



**Monocrystal solar panels**

The photoelectric conversion efficiency of monocrystalline silicon solar cells is 15-24%, which is the highest in all kinds of solar cells at present. Because monocrystalline silicon is usually sealed with toughened glass and waterproof resin, it is strong and durable, with a service life of 15 to 25 years.

Product Model	Rated Power	Working voltage	Working current	Open Circuit Voltage	Short Circuit Current	L(mm)	W(mm)	H(mm)	Weight(kg)
S-180.36-A15110	180	36	5	43.2	5.5	680	1510	35	12
S-240.36-B1330	240	36	6.67	43.2	7.34	1000	1330	35	15.3
S-360.36-B1070	360	36	10	43.2	11	1000	1970	35	22.9

**INTEGRATED LITHIUM BATTERY AND CONTROLLER**



**Smart Controller**

With intelligent control of lighting time, overcharge, over discharge, electronic short circuit, overload protection, anti-reverse connection protection and other functions, it can adapt to cold, high temperature, humidity and other environments.



**6063-T5 aluminium**  
 Gorgeous colors  
 Good corrosion resistance  
 Strong toughness

**High efficiency lithium battery**

High efficiency, light weight and long service life. Inhibits battery polarization, reduces thermal effect and improves rate performance.



**Built-in lithium iron phosphate flat head battery**

Mature automatic production technology, high yield of products, and more deep cycles of the cell.

Product Model	Specification	Voltage	L(mm)	W(mm)	H(mm)	Weight(kg)
C2-60.12	60AH	12.6V	451	184	130	9.28
C2-60.24	60AH	25.6V	781	184	130	16.67
C2-84.24	84AH	25.6V	1045	184	130	22.57

**BATTERY INSTALLATION MODE IS OPTIONAL**

**Gel battery installation mode**



**Installation method of lithium iron phosphate battery**







**KY-D-HX AC**  
**CONCO** LED street light

Unique thermal modules ensures the best working temperature of the light source;  
International famous brand LED chip, uniform illumination, no glare;  
No need to open the cover for installation and disassembly, easy to operate;  
Pluggable circuit connection, simple maintenance;  
Patent design, novel and fashionable.



## DETAILS OF THE RIGOROUS STRUCTURE AND RELIABLE NOT AFRAID OF WIND AND RAIN

Outdoor LED street lamps not only need go through wind and frost, but also to experience hot summer. The modular design achieves IP65 protection rating, effectively isolating salt tide, dust and heat, enabling it to cope with the harsh outdoor environment.



### AC power supply (AC only)

Energy-saving, efficient, reliable, long life, IP67 protection, die-cast aluminum shell, good heat dissipation, low power consumption, can effectively reduce component temperature.



### Heat emission hole

Help lamps heat.



### Reinforce the hedge



### 6063 aluminum radiator

High thermal conductivity; Large heat dissipation surface design within normal cooling limits.



### Batwing Lens

The lens is Teijin brand.1225Z (is of high strength and high adaptability).

### High-pressure cast aluminum lamp body

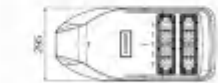
ADC12 high pressure die-cast aluminum molding, impact resistance, corrosion resistance, electrostatic spray treatment after shot blast.

## TECHNICAL PARAMETERS

Product Model	KY-D-HX-001	KY-D-HX-002	KY-D-HX-003	KY-D-HX-004
Rated Power	80W	120W	150W	180W
System Voltage	AC100V-305V		AC100V-305V	
Rated Current	1.7A	2.25A	2.8A	3.38A
Light Source	LUMILEDS 3030/5050		LUMILEDS 3030/5050	
Light Distribution	Bat-Wing light distribution (150°x75°)		Bat-Wing light distribution (150°x75°)	
Light Efficiency	≥130LM/W		≥130LM/W	
Color Temperature	3000K/4000K/5700K/6500K		3000K/4000K/5700K/6500K	
CRI	≥Ra70		≥Ra70	
IP Rate	IP66		IP66	
IK Rate	IK08		IK08	
Working Temperature	-10°C~+60°C		-10°C~+60°C	
Product Weight	4.6kg		7.6kg	
LED Lifespan	>50000H		>50000H	
Controller	Meanwell		Meanwell	
Mount Diameter	φ60mm		φ60mm	
Lamp Dimension	645×295×144mm		775×320×150mm	
Package Dimension	695×350×200mm (1pc/CTN)		830×370×210mm (1pc/CTN)	
Suggested Mount Height	8m-10m		10m-12m	

Product Model	KY-D-HX-005
Rated Power	240W
System Voltage	AC100V-305V
Rated Current	4.5A
Light Source	LUMILEDS 3030/5050
Light Distribution	Bat-Wing light distribution (150°x75°)
Light Efficiency	≥130LM/W
Color Temperature	3000K/4000K/5700K/6500K
CRI	≥Ra70
IP Rate	IP66
IK Rate	IK08
Working Temperature	-10°C~+60°C
Product Weight	8.3kg
LED Lifespan	>50000H
Controller	Meanwell
Mount Diameter	φ60mm
Lamp Dimension	775×320×150mm
Package Dimension	830×370×210mm (1pc/CTN)
Suggested Mount Height	12m-15m

## PRODUCT DIMENSION



KY-D-HX-001  
KY-D-HX-002  
KY-D-HX-003



KY-D-HX-004  
KY-D-HX-005



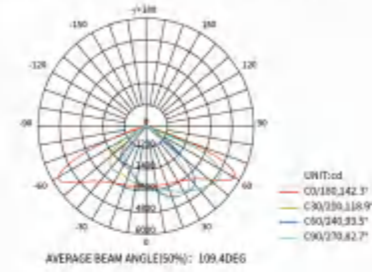
KY-D-HX-006  
KY-D-HX-007

## LIGHT DISTRIBUTION CURVE

### Street Light Intensity Test Report(80W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA		Effic:151.78lm/W	
MODEL	KY-D-HX-001	Imax (cd)	5679	$\eta$ street up (%)	0.4
NOMINAL POWER (W)	80	LOR (%)	100.0	$\eta$ street down (%)	54.2
RATED VOLTAGE (V)	42	TOTAL FLUX (lm)	12142	$\eta$ house up (%)	0.3
NOMINAL FLUX (lm)	6071.02	MAXIMUM $\theta$ (C, $\gamma$ )	180°, 58.0°	$\eta$ house down (%)	45.0
LAMPS INSIDE	2	$\eta$ up (%)	0.8	76 FLASHAREA (m <sup>2</sup> )	
TSET VOLTAGE (V)	43	$\eta$ down (%)	99.2	STL	

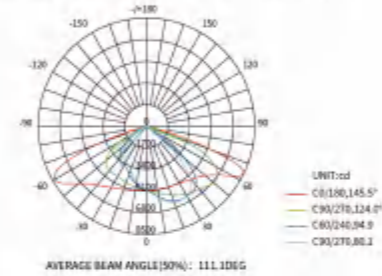
Meridian Light Distribution Curve(80W Parameter)



### Street Light Intensity Test Report(120W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA		Effic:151.58lm/W	
MODEL	KY-D-HX-002	Imax (cd)	8468	$\eta$ street up (%)	0.4
NOMINAL POWER (W)	120	LOR (%)	100.0	$\eta$ street down (%)	53.5
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	18189	$\eta$ house up (%)	0.3
NOMINAL FLUX (lm)	9094.52	MAXIMUM $\theta$ (C, $\gamma$ )	0°, 64.0°	$\eta$ house down (%)	45.7
LAMPS INSIDE	2	$\eta$ up (%)	0.7	76 FLASHAREA (m <sup>2</sup> )	
TSET VOLTAGE (V)	50.1	$\eta$ down (%)	99.3	STL	

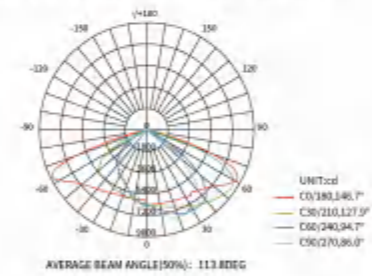
Meridian Light Distribution Curve(120W Parameter)



### Street Light Intensity Test Report(150W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA		Effic:145.54lm/W	
MODEL	KY-D-HX-003	Imax (cd)	8875	$\eta$ street up (%)	0.4
NOMINAL POWER (W)	150	LOR (%)	100.0	$\eta$ street down (%)	55.5
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	21831	$\eta$ house up (%)	0.3
NOMINAL FLUX (lm)	7276.96	MAXIMUM $\theta$ (C, $\gamma$ )	180°, 64.0°	$\eta$ house down (%)	43.8
LAMPS INSIDE	3	$\eta$ up (%)	0.8	76 FLASHAREA (m <sup>2</sup> )	
TSET VOLTAGE (V)	49.1	$\eta$ down (%)	99.2	STL	

Meridian Light Distribution Curve(150W Parameter)



POLE SELECTION

