



**INTENSE SERIES**  
Solar street light



SOLAR STREET LIGHT



**MINIMALIST AND STYLISH**  
**ENERGY SAVING AND ENVIRONMENTAL PROTECTION**  
**EFFICIENT HEAT DISSIPATION**

Intense series LED street lamps are designed by combining green lighting, energy saving and environmental protection with urban landscape decoration Street lamp, suitable for modern city, square, industrial park and other places of road lighting.



**Bat-Wing Type Light source**

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



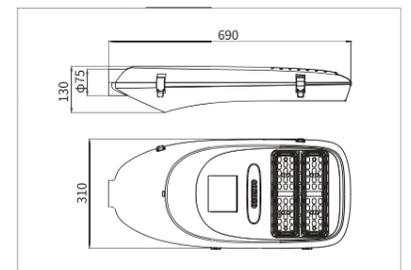
**Built-in lithium iron phosphate battery**

High efficiency, light and convenient, long life span.



**Quick-release buckle design**

Buckle-type design, can be opened and closed quickly and easily, easy to install and maintain.



**KY-E-HT** DC  
**INTENSE** All-in-two solar street light



Elegant style, modular integrated design; high power; Snap-on design for quick and easy opening and closing; easy installation and maintenance.

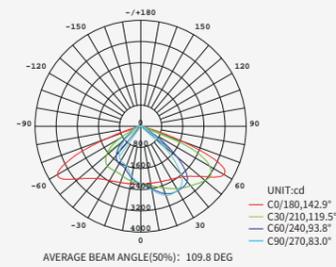
Product Model	KY-E-HT-001	KY-E-HT-002	KY-E-HT-003	KY-E-HT-004
Rated Power	40W	50W	60W	80W
System Voltage	DC12V	DC12V	DC12V	DC24V
Lithium Battery	12.8V/40AH 512WH	12.8V/50AH 640WH	12.8V/60AH 768WH	25.6V/30AH 768WH
Suggested Solar Panel	Mono-crystalline 90W/18V	Mono-crystalline 120W/18V	Mono-crystalline 120W/18V	Mono-crystalline 180W/36V
Light Source	3030/5050			
Light Distribution	Bat-Wing light distribution (150°x75°)			
Light Efficiency	≥130LM/W	≥130LM/W	≥130LM/W	≥130LM/W
Color Temperature	3000K/4000K/5700K/6500K			
CRI	≥Ra70			
IP Rate	IP67			
IK Rate	IK09			
Working Temperature	-10°C~+60°C			
Product Weight	8.6kg	9.8kg	10.6kg	10.6kg
LED Lifespan	>50000H			
Controller	12V/24V 20A	12V/24V 20A	12V/24V 20A	12V/24V 15A
Mount Diameter	φ60mm			
Lamp Dimension	690x310x130mm			
Package Dimension	750x360x190mm (1pc/CTN)			
Suggested Mount Height	6m~10m			

## LIGHT DISTRIBUTION CURVE

### Street Light Intensity Test Report(50W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA		Eff:158.69lm/W	
MODEL	KY-E-HT-002	Imax (cd)	3661	η street up (%)	0.4
NOMINAL POWER (W)	50	LOR (%)	100.0	η street down (%)	54.2
RATED VOLTAGE (V)	42	TOTAL FLUX (lm)	7934	η house up (%)	0.3
NOMINAL FLUX (lm)	3967.2	MAXIMUM θ (C, γ)	180°, 59.0°	η house down (%)	45.1
LAMPS INSIDE	2	η up (%)	0.8	76 FLASHAREA (㎡)	
TSET VOLTAGE (V)	41.0	η down (%)	99.2	STL	

Meridian Light Distribution Curve(50W Parameter)



## PRODUCT STRUCTURE DISPLAY

### Lithium iron phosphate battery

Cycle life is more than 1500 times, safe to use, no fire and no explosion; High temperature resistance, large capacity, green environmental protection.

### High-pressure die-cast aluminum lamp body

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

### Hoop type

The size can be adjusted according to the mounting diameter.

### 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.

### Thermal Design

Hollow radiator, enhance air convection, high heat dissipation efficiency.

Module radiator  
Modular waterproof button  
aluminum pcb  
High luminous efficiency bead  
lens seal  
High efficiency optical lens  
Decoration

### Quick-release buckle design

The snap-on design allows quick and easy opening and closing for easy installation and maintenance.

### High efficiency light source module

Specially tailored patent lens for large scale. Improve the lighting effect, so that the uniformity of illumination. Better and better improve the road lighting effect.





## KY-F-HT DC INTENSE Split style solar street light



Elegant style, modular integrated design;  
high power;  
Snap-on design for quick and easy opening and  
closing; easy installation and maintenance.

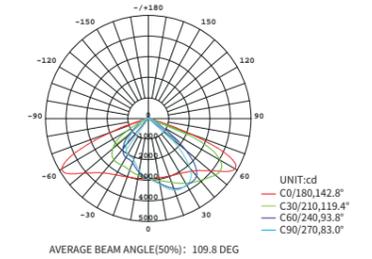
Product Model	KY-F-HT-001	KY-F-HT-002	KY-F-HT-003
Rated Power	80W	100W	120W
System Voltage	DC24V		
Lithium Battery	25.6V/40AH 1024WH	25.6V/50AH 1280WH	25.6V/60AH 1536WH
Suggested Solar Panel	180W/36V	240W/36V	240W/36V
Light Source	3030/5050		
Light Distribution	Bat-Wing light distribution (150°x75°)		
Light Efficiency	≥130LM/W	≥130LM/W	≥130LM/W
Color Temperature	3000K/4000K/5700K/6500K		
CRI	≥Ra70		
IP Rate	IP66		
IK Rate	IK08		
Working Temperature	-40°C~+60°C		
Product Weight	5.1kg		
LED Lifespan	>50000H		
Controller	12V/24V 15A	12V/24V 20A	12V/24V 20A
Mount Diameter	φ60mm		
Lamp Dimension	690×310×130mm		
Package Dimension	750×360×190mm (1pc/CTN)		
Suggested Mount Height	8m~10m	8m~12m	8m~12m

## LIGHT DISTRIBUTION CURVE

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

DATA OF LAMP		PHOTOMETRIC DATA				Eff:151.05lm/W
MODEL	KY-F-HT-001	I <sub>max</sub> (cd)	4894	η street up (%)	0.4	
NOMINAL POWER (W)	80	LOR (%)	100.0	η street down (%)	54.2	
RATED VOLTAGE (V)	42	TOTAL FLUX (lm)	10574	η house up (%)	0.3	
NOMINAL FLUX (lm)	5286.77	MAXIMUM θ (C, γ)	180°, 59.0°	η house down (%)	45.1	
LAMPS INSIDE	2	η up (%)	0.8	76 FLASHAREA (m <sup>2</sup> )		
TSET VOLTAGE (V)	42.45	η down (%)	99.2	STL		

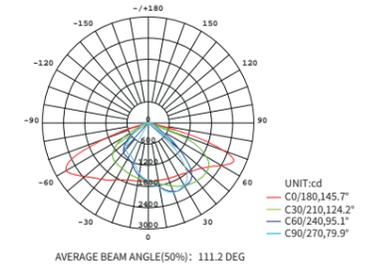
### Meridian Light Distribution Curve(80W Parameter)



### Street Light Intensity Test Report(100W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA				Eff:152.21lm/W
MODEL	KY-F-HT-002	I <sub>max</sub> (cd)	7053	η street up (%)	0.4	
NOMINAL POWER (W)	100	LOR (%)	100.0	η street down (%)	53.5	
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	15221	η house up (%)	0.3	
NOMINAL FLUX (lm)	7610.48	MAXIMUM θ (C, γ)	0°, 64.0°	η house down (%)	45.7	
LAMPS INSIDE	2	η up (%)	0.7	76 FLASHAREA (m <sup>2</sup> )		
TSET VOLTAGE (V)	49.8	η down (%)	99.3	STL		

### Meridian Light Distribution Curve(100W Parameter)



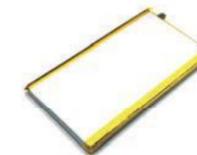
## COMPONENT SELECTION TABLE



### 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-A1510	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



### Built-in lithium iron phosphate battery pack

Good safety performance, light weight, large battery capacity, good circulation performance, flexible design.

Product Model	Specification	Voltage	L(mm)	W(mm)	H(mm)	Weight(kg)
C1-40.24	40AH	25.6V	500	169	120	9.0
C1-50.24	50AH	25.6V	600	169	120	10.8
C1-60.24	60AH	25.6V	700	169	120	12.7



### 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)
C2-48.24	48AH	25.6V	648	169	120	13.0
C2-60.24	60AH	25.6V	780	169	120	15.8

