

**SOKOYO**<sup>®</sup>

**TECO SERIES**  
All in Two solar street light

SOLAR STREET LIGHT



Appearance Patent Number: 201730612718.0



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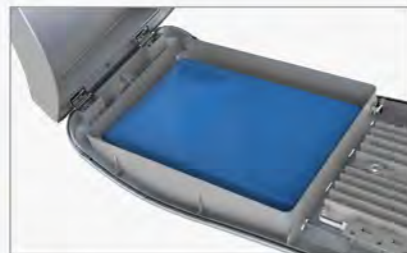
**MODERN CURVED DESIGN  
LIGHT AND DYNAMIC PATENTED DESIGN  
ENVIRONMENTAL PROTECTION AND ENERGY SAVING**

Teco 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.



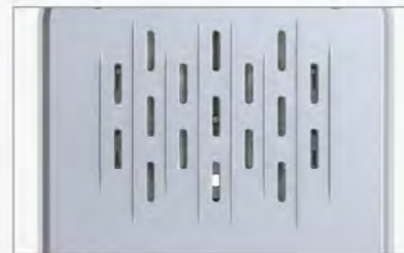
**Bat-Wing Type Light source**

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



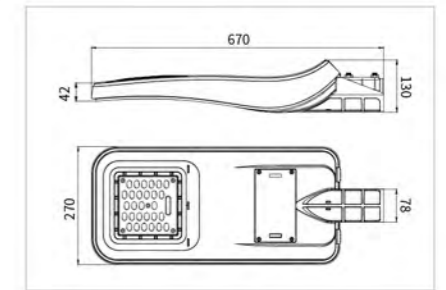
**Built-in lithium iron phosphate battery**

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



**Radiator hole design**

Good heat dissipation; ADC12 high pressure die-casting aluminum, impact resistant and corrosion resistant. Electrostatic plastic spraying treatment after surface shot blasting.



**KY-E-FY DC  
TECO All-in-two solar street light**



Beautiful curve, light and dynamic patented design;  
Modular integration design, easy installation and maintenance;  
Effective energy saving, extend service life;  
Bat-wing Type Light source to make a more uniform light distribution;

Product Model	KY-E-FY-001
Rated Power	20W
System Voltage	DC12V
Lithium Battery	12.8V/20AH 256WH
Suggested Solar Panel	Mono-crystalline 60W/18V
Light Source	LUMILEDS 3030/5050
Light Distribution	Bat-Wing light distribution (150°x75°)
Light Efficiency	≥130LM/W
Color Temperature	3000K/4000K/5700K/6000K/6500K
CRI	≥Ra70
IP Rate	IP65
IK Rate	IK08
Working Temperature	-10°C~+60°C
Product Weight	6.1kg
LED Lifespan	>50000H
Controller	12V/10A
Mount Diameter	φ60mm
Lamp Dimension	670x270x130mm
Package Dimension	710x320x180mm (1pc/CTN)
Suggested Mount Height	5m/6m



## THE LIGHT SOURCE MODULE

Bat-wing Type Light source to make a more uniform light distribution, greatly improve the lighting effect. Philips light source chip, light output, luminous efficiency, service life, reached international standards, 3000K-6500K cold and warm light can be switched to meet the lighting requirements of different environments.

5050 Module Optional

3030 Module Optional

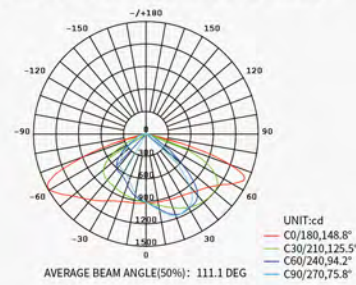


## LIGHT DISTRIBUTION CURVE

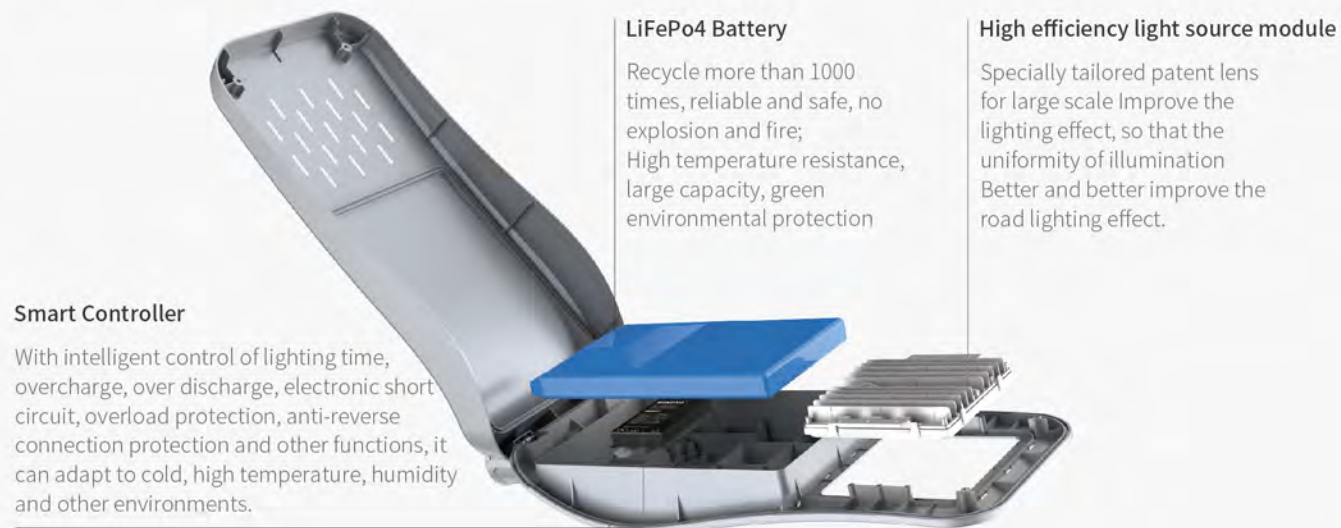
Street Light Intensity Test Report(20W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	KY-E-FY	Eff:168.69lm/W			
NOMINAL POWER (W)	20	Imax (cd)	1495	$\eta$ street up (%)	0.4
RATED VOLTAGE (V)	30	LOR (%)	100.0	$\eta$ street down (%)	53.2
NOMINAL FLUX (lm)	3373.88	TOTAL FLUX (lm)	3374	$\eta$ house up (%)	0.3
LAMPS INSIDE	1	MAXIMUM @ (C, Y)	180°, 61.0°	$\eta$ house down (%)	46.2
TSET VOLTAGE (V)	28.85	$\eta$ up (%)	0.7	76 FLASHAREA (mf)	
		$\eta$ down (%)	99.3	STL	

Meridian Light Distribution Curve(20W Parameter)



## PRODUCT STRUCTURE DISPLAY



### 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.





**KY-F-FY DC**  
**TECO** Split style solar street light



Modern curved design, light and dynamic patented design;  
Modular integration design, easy installation and maintenance;  
Effective energy saving, extend service life;  
Bat-wing Type Light source to make a more uniform light distribution.

Product Model	KY-F-FY-001	KY-F-FY-002
Rated Power	40W	60W
System Voltage	DC12V/24V	DC12V/24V
Lithium Battery	12.8V/40AH 512WH	12.8V/60AH 768WH
Suggested Solar Panel	90W/18V	120W/18V
Light Source	LUMILEDS3030/5050	
Light Distribution	Bat-Wing light distribution (150°x75°)	
Light Efficiency	≥130LM/W	≥130LM/W
Color Temperature	3000K/4000K/5700K/6000K/6500K	
CRI	≥Ra70	
IP Rate	IP65	
IK Rate	IK08	
Working Temperature	-10°C~+60°C	
Product Weight	3.9kg	
LED Lifespan	>50000H	
Controller	12V/24V 10A	12V/24V 15A
Mount Diameter	φ60mm	
Lamp Dimension	670×270×130mm	
Package Dimension	720×310×180mm (1pc/CTN)	
Suggested Mount Height	7m~9m	



#### PRODUCT DIMENSION

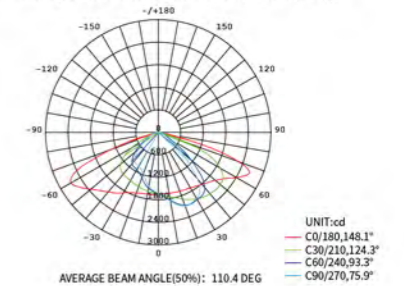


#### LIGHT DISTRIBUTION CURVE

##### Street Light Intensity Test Report(40W Parameter)

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	KY-F-FY	I <sub>max</sub> (cd)	2688	η <sub>street up</sub> (%)	0.4
NOMINAL POWER (W)	40	LOR (%)	100.0	η <sub>street down</sub> (%)	53.7
RATED VOLTAGE (V)	30	TOTAL FLUX (lm)	6044	η <sub>house up</sub> (%)	0.3
NOMINAL FLUX (lm)	6044.4	MAXIMUM θ (C, Y)	180°, 60.0°	η <sub>house down</sub> (%)	45.7
LAMPS INSIDE	1	η <sub>up</sub> (%)	0.7	7θ FLASHAREA (m <sup>2</sup> )	
TSET VOLTAGE (V)	30.83	η <sub>down</sub> (%)	99.3	STL	

##### Meridian Light Distribution Curve(40W Parameter)



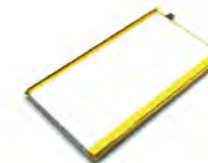
#### COMPONENT SELECTION TABLE



##### 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-090.18-A770	90	18	5	21.6	5.5	680	770	30	5.9
S-120.18-B1010	120	18	6.67	21.6	7.34	680	1010	35	7.9



##### 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)
C1-40.12	40AH	12.8V	290	169	120	4.3
C1-60.12	60AH	12.8V	390	169	120	6.1



##### 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)
C2-42.12	42AH	12.8V	330	169	120	5.6
C2-60.12	60AH	12.8V	450	169	120	8.8

