



# X5 Dual (Split Type) Solar Street Light

CE | CB | RoHS | IP66 | IK08



Monocrystalline  
Solar Panel



Efficient  
Controller



LiFePO4 Li-ion  
Battery



Motion  
Sensor



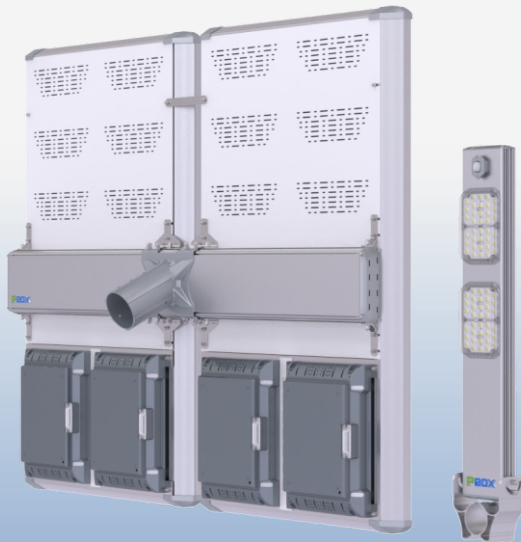
Superior  
Outdoor LED



Robust  
Structure



IP66  
Waterproof



## Protected Against All Weathers

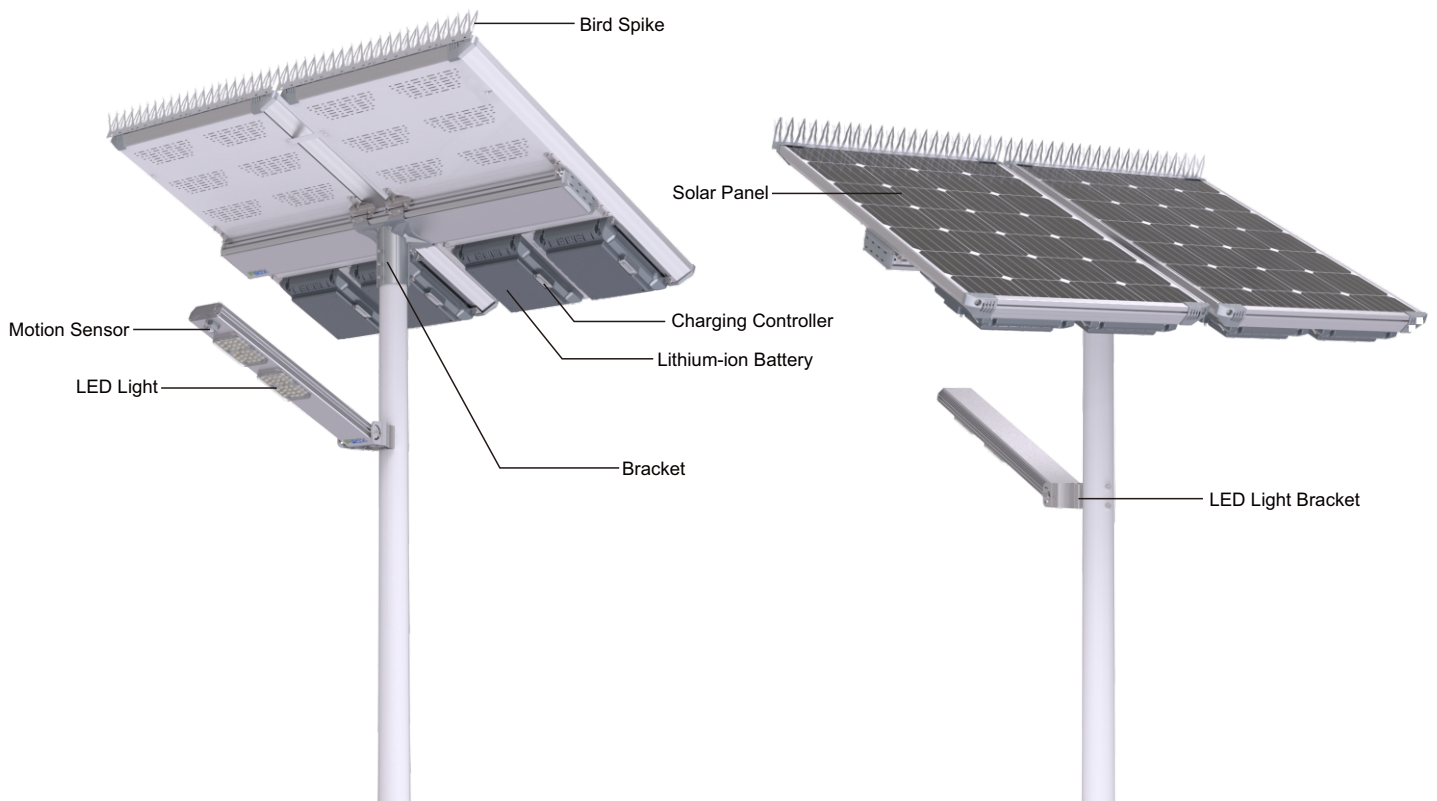
The PBOX X5 series solar street lights can withstand cold and hot weather. The modular structure of the PBOX X5 is extremely good at protecting the essential parts of the street lights. It reaches IP66 protection grade, effectively isolating humidity, dust and heat invasion, making it easy to overcome the challenges of harsh outdoor environments.

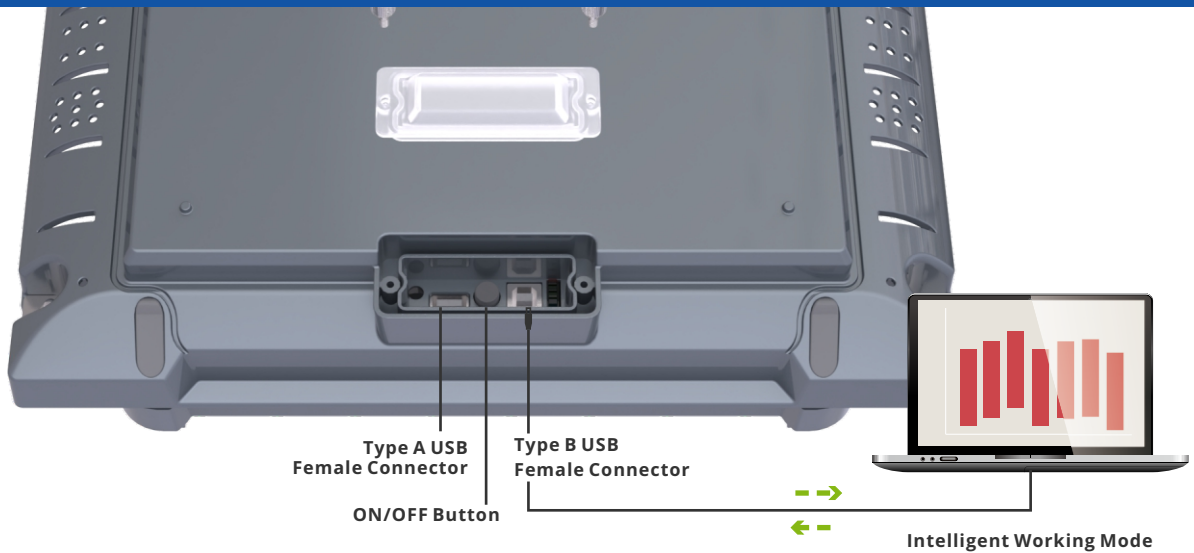
## Simple Installation, Extremely Practical

The PBOX X5 stand-alone solar street lights are very simple to use, no separate battery pack required and no complicated wiring or settings. All you need to do is to attach it to the post with some screws. That is all.

The X5 will switch on automatically at dusk and switch off automatically at dawn. When there is no one around, it will dim itself to reduce energy consumption; when any one approaches, it will increase its brightness to 100% immediately.

### 3 Types INSTALLATION





## Intelligent Steady State Controller

The independent researched and developed charging controller generates more power, especially during cloudy & rainy days. It simultaneously has protection for over current, over voltage and over heating. Through the USB interface on the controller, it is able to easily modify its operating mode.

### 1 Short-circuit Protection

To prevent any damage from happening due to instantaneous short circuit.

### 2 Overload Protection

To protect from output overloading.

### 3 Reverse Connection Protection

With built-in protection means to prevent damage due to reverse connection.

### 4 Overheating Protection

To protect from overheating of the converter module.

## Eco-Friendly LiFePO4 Lithium-ion Battery

Traditional solar powered street lights use lead acid batteries that have a very short life cycle and are difficult to maintain, creating massive environmental pollution and a very low ROI. We therefore decided to use Lithium-ion batteries that have 3 times life cycle, 4 times discharge ability and are not harmful to the environment in our sealed product. Normally, LiFePO4 batteries need a proper battery management system to avoid the "barrel effect". For this, the PBOX X5 uses an exclusive patented battery management technology to enable the life span of battery to last for over 6 years, greatly improving the ROI and at the same time helping to save resources on the earth.





## MONOCRYSTALLINE MODULE High efficient and Durable

19.6% photoelectric Conversion Efficiency Ending with 80% output in 25 years 3.2mm tempered glass lamination for excellent mechanical load resistance.

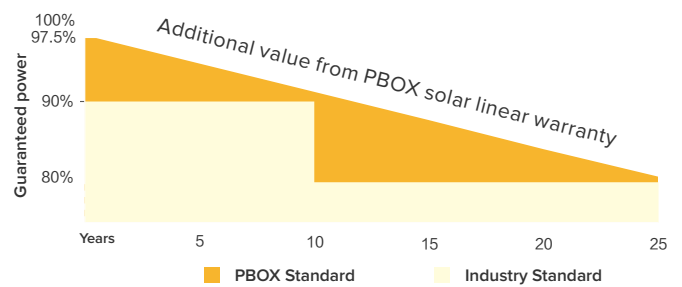
### Reliable Products Tested and Proven

IEC61215/IEC61730  
ISO 9001: Quality Management System  
ISO 14001: Environment Management System



### Linea Performance Warranty

Power output warranty:  
10 years over 90%, 25 years over 80%;



## SUPER ALUMINUM FRAME makes this a tough unit

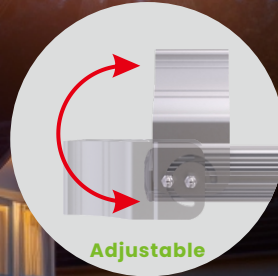
PBOX X5 uses a super aluminum frame, which is light weight, strong and corrosion resistant, making it able to resist strong wind load of up to **130MPH**. Stainless steel screws are used as fasteners to protect against any harsh weather.



## LED Street Light

### High Efficient LED

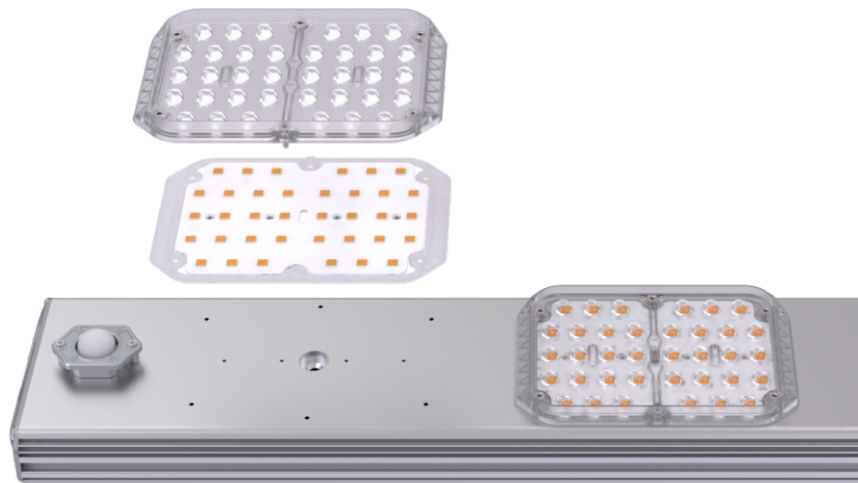
By choosing the top brands 5W LED chips, single lumen value up to 200lm/W (@25°C), with the aluminum lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very little fading. The sealed lenses are made of strong UV protected PC and are aging and shock resistant; The well optimized light distribution, makes a more uniform illumination and wider lighting area.



## Optical Control

The optical lens was designed by PBOX Lighting' R&D team, combining the features of PBOX luminaires for various applications. With the professional optional control design, PBOX luminaires could provide a wide light distribution range, and a better uniformity of illumination, which make the lamps better adapt to the specifications of standards and regulations for road lighting.

The lens is made of high-quality PC material, which has a very good optical durability and transmittance, as well as a good impact resistance, making the lamp durable and stable.



IP66

IK08  
IK Rating

50,000 hr  
The LED life

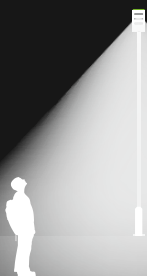
3 year  
Warranty

## PIR Motion Detection System

PIR motion detection system can automatically regulate the light source from full bright to dim mode to increase battery autonomy.

100% Brightness when motion is detected

25% Brightness when no motion is detected



# Infrared Remote Control

1

To switch ON/OFF the light;

2

To shift from activated status to transportation mode to OFF mode;

3

To change setting of luminaire's working mode when specially needed;  
With maximum five working mode sections.



The solar street light could be controlled manually when you hold the remote control device and press its buttons under the lamp post within the range of 1~8 meters away from the post.



X5 Dual Solar Power Supply System

# PARAMETERS

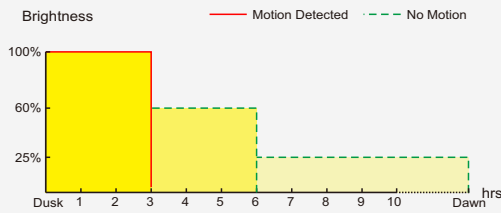
Model No.		X5FR-40-D
<b>PV Module Parameters</b>		
Power of PV Module (W)		150+150
Lithium Battery Capacity (Wh)		615+615
Net Weight of Product (kg)		49
Dimension of Product (mm)		1147(L)×1464(W)×271(T)
Light Photosensitivity (lx)		60~90
<b>Packing Parameters</b>		
Main Package	Carton Size (mm)	1570(L)×205(W)×1235(H)
	Gross Weight (kg)	54
Extra Package	Carton Size (mm)	205×170×235
	Gross Weight (kg)	2.6
<b>Environment Requirement</b>		
Charge Temperature		0°C~51°C
Discharge Temperature		-20°C~60°C
Storage Temperature (<3 months)		-20°C~45°C
<b>Mounting Recommendation</b>		
EPA (Effective Projected Area) (ft <sup>2</sup> )		9.04
APA (Actual Projected Area) (ft <sup>2</sup> )		7.54
Wind Load Rate (mph)		130
Top of Pole or Tenon OD (mm)		85~90

LED Luminaire

# PARAMETERS

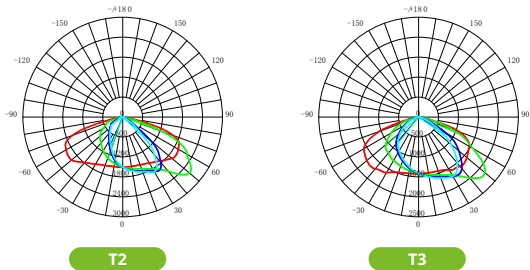
Model No.		SL80/SL100
<b>LED Module Parameters</b>		
Light Output (W)		80/100
Qty. of LED Chips		36×2
Optional Light Distribution		T2/T3
Typical Luminous Flux (lm)		103600/17500
Color Temperature (K)		5000
Dimension of Product (mm)		719×169×150
Net Weight of Product (kg)		6
Storage Temperature		-20°C~45°C
<b>Packing Parameters</b>		
Dimension of Carton (mm)×2 Sets		1090×200×180
Gross Weight of Product (kg)×2 Sets		11
<b>Mounting Recommendation</b>		
EPA (Effective Projected Area) (ft <sup>2</sup> )		0.59
APA (Actual Projected Area) (ft <sup>2</sup> )		0.49
Wind Load Rate (mph)		110
Top of Pole or Tenon OD (mm)		55~60
Recommended Installation Height (m)		8~10
Recommended Installation Distance (m)		30~45

## Working Mode:

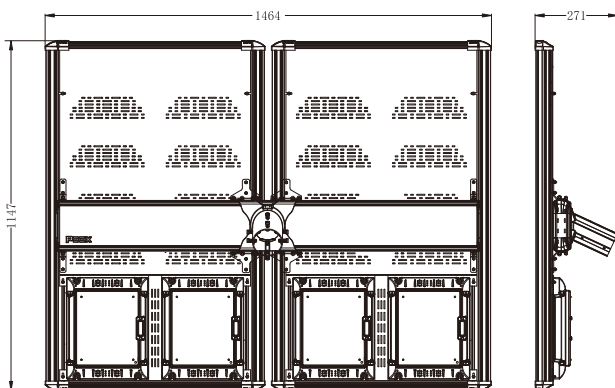


## Bat Wing Light Distribution

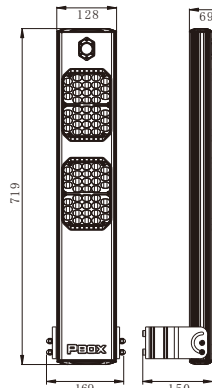
The new lens design improves the lighting effect and lighting uniformity, while also increasing light coverage.



## Physical Dimensions (mm):



X5FR-40-D



SL80

The light source contained in this luminaire shall only be replaced by the manufacturer or its agent or a qualified person.

The torque setting for any bolts or screws used to secure the luminaire to the bracket is 14 N/m. Use for outdoors only.