



# X4 (All-In-One Type) Solar Street Light

CE | CB | RoHS | IP66 | IK08



Double-Sided  
Solar Panel



Efficient  
Controller



LiFePO4 Li-ion  
Battery



Motion  
Sensor



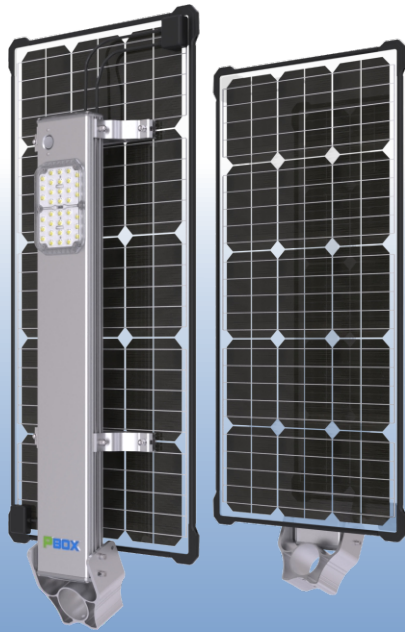
Superior  
Outdoor LED



IR Remote  
Control



IP66  
Waterproof



## Simple Design, Superior Quality

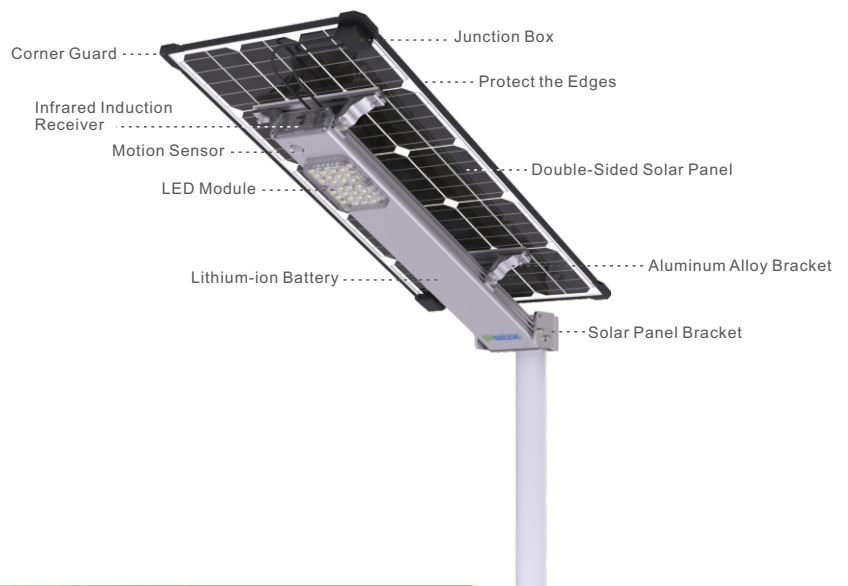
X4 series is a brandnew design developed by PBOX team. The solar lighting system integrates bifacial solar panels with high conversion efficiency, high luminous LED lamps, long life and environment friendly batteries with intelligent battery management system, and stable and intelligent controllers.

With such a smart and compact design, the X4 is very easy to install, maintain and transport, providing users with a very convenient off-grid lighting solution.

## Simple Installation, Extremely Practical

The PBOX X4 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 X4 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.



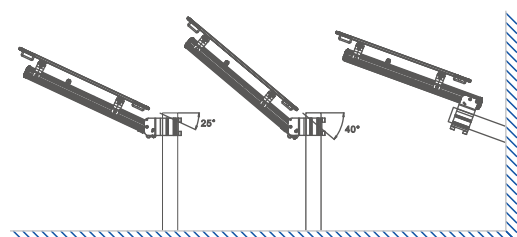
## Solid & Reliable Bracket Structure

The high strength 6063 aluminium alloy, corrosion resistant anodized surface, and special structure design, makes the bracket strong, secure and reliable.



## The Bracket Can be Adjusted From Multiple Angles.

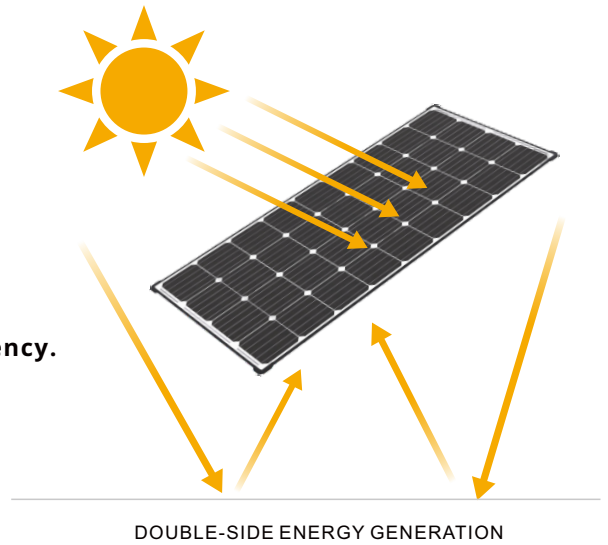
- Vertical rod installation can choose 25° or 40°
- The bracket is down to fix the bar



## Efficient Double-Sided Solar Panel

X4 uses the unique designed double-sided PV module and tempered glass on the panel, which minimizes the risk of degradation of the panel, enabling long-term use.

- **Bifacial solar module, more energy generation.**
- **Mono-crystalline solar panel, Up to 22% conversion efficiency.**



## Advanced Battery Management Technology

At the heart of every PBOX solar lighting system are the ingenious Lithium LiFePO4 batteries featuring PBOX's patented advanced battery management system. They have much greater charging efficiency and the battery cycle life is up to 4000 times at 80% DOD.



Light Weight



Eco-Friendly



Stable Performance



Long Life Span



Safe and Explosion-proof

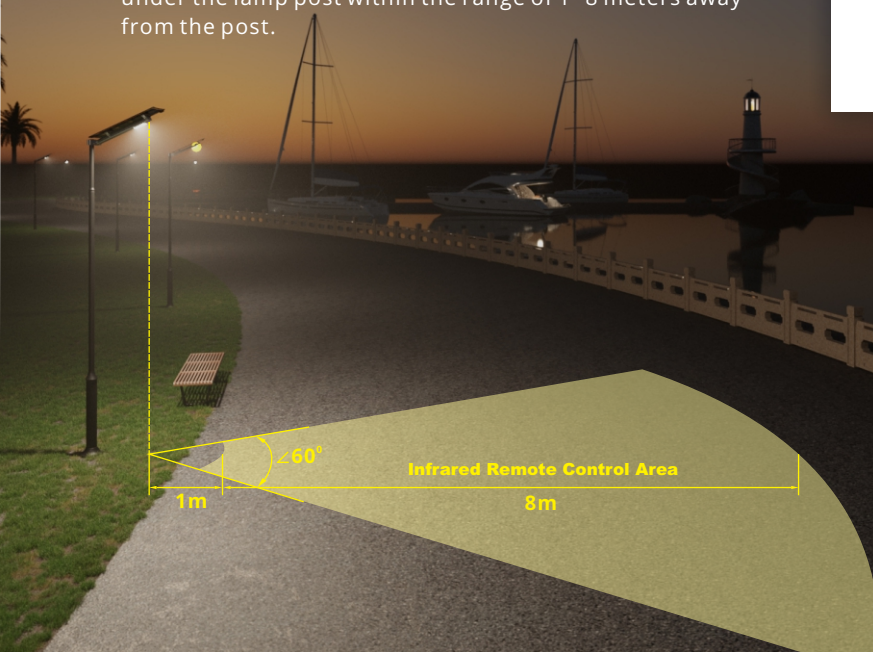


High Temperature Resistance

## Infrared Remote Control

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.

- 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.



## LED Street Light

### High Efficient LED

Using high-efficiency LED, luminous efficiency is up to 190lm/W (@25 C). The lights sealing lens is made of strong anti-ultraviolet PC, which has anti-aging and anti-impact performance, enabling long term usage. The unique design of the optical lens, allows us to eliminate the lighting pollution to the environment.

## 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.

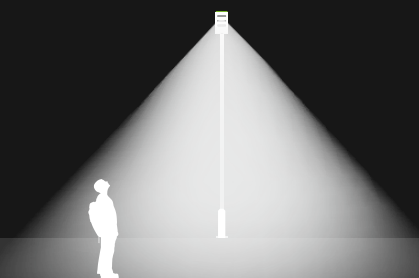
The lens is made of high-quality PC material, which has a very good optical durability and transmittance, as well as a good impact resistance, making the lamp durable and stable.



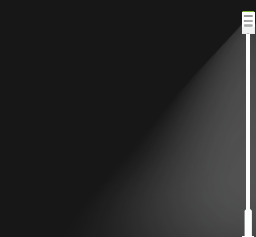
## PIR Motion Detection System

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



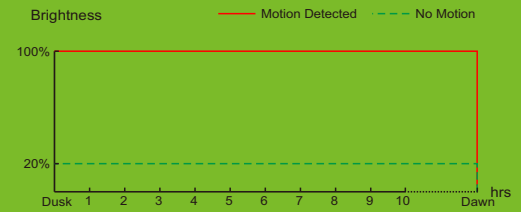
20% Brightness when no motion is detected



# X4 Series Solar Street Light PARAMETERS

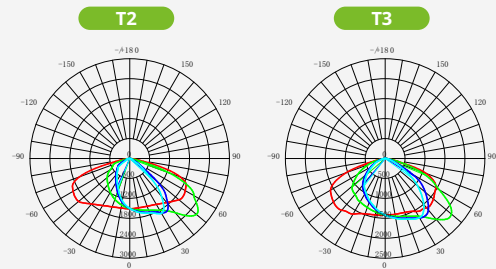
Model No.		X4BI15	X4DN30
<b>PV Module Parameters</b>			
Power of PV Module (W)		35	60
Lithium Battery Capacity (Wh)		154	308
Net Weight of Product (kg)		8.5	13
Dimension of Product (mm)		715×434×126	1016×434×126
<b>Light Parameters</b>			
Light Output (W)		15	30
Qty. of LED Chips		16	24
Optical Distribution		T2/T3	T2/T3
Color Temperature (K)		5000	5000
Typical Luminous Flux (lm)		2775	5400
Min. Working Time (Hours)	Bright Mode	9	9
	DIM Mode (25%)	35	35
Light Photosensitivity (lx)		60~90	60~90
<b>Packing Parameters</b>			
Main Package	Carton Size (mm)	765×290×490	1065×290×490
	Gross Weight (kg)	19.5	28
Qty Per Carton (pcs)		2	2
<b>Environment Requirement</b>			
Charge Temperature		0°C~51°C	0°C~51°C
Discharge Temperature		-20°C~60°C	-20°C~60°C
Storage Temperature (<3 months)		-20°C~45°C	-20°C~45°C
Storage Temperature (3~12 months)		-20°C~25°C	-20°C~25°C
<b>Mounting Recommendation</b>			
Wind Load Rate (mph)		110	110
EPA (Effective Projected Area) (ft <sup>2</sup> )		1.69	2.41
APA (Actual Projected Area) (ft <sup>2</sup> )		1.41	2.01
Top of Pole or Tenon OD (mm)		55~60	55~60
Recommended Installation Height (m)		4~6	6~8
Recommended Installation Distance (m)		15~25	20~30

### Working Mode:

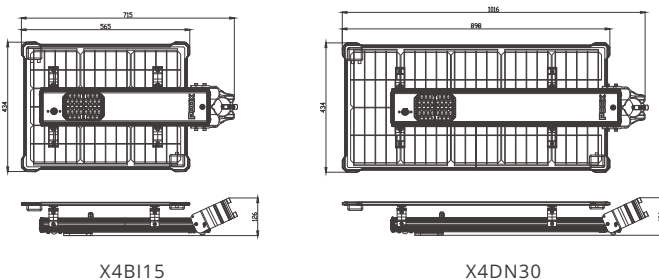


### Bat Wing Light Distribution

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



### Physical Dimensions (mm):



\* 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.