



X4S (Split Type) Solar Street Light

CE | CB | RoHS | IP66 | IK08



Double-Sided
Solar Panel



Efficient
Controller



LiFePO4 Li-ion
Battery



Motion
Sensor



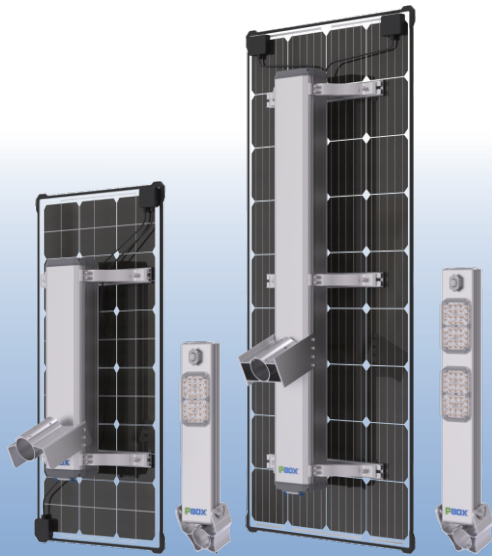
Superior
Outdoor LED



Robust
Structure



IP66
Waterproof



Simple Design, Superior Quality

X4S 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 X4S is very easy to install, maintain and transport, providing users with a very convenient off-grid lighting solution.

Simple Installation, Extremely Practical

The PBOX X4S 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 X4S 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

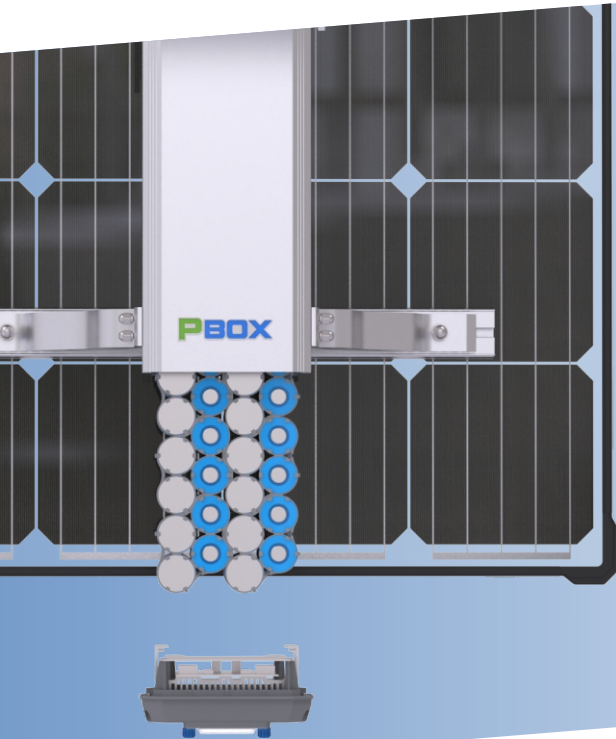
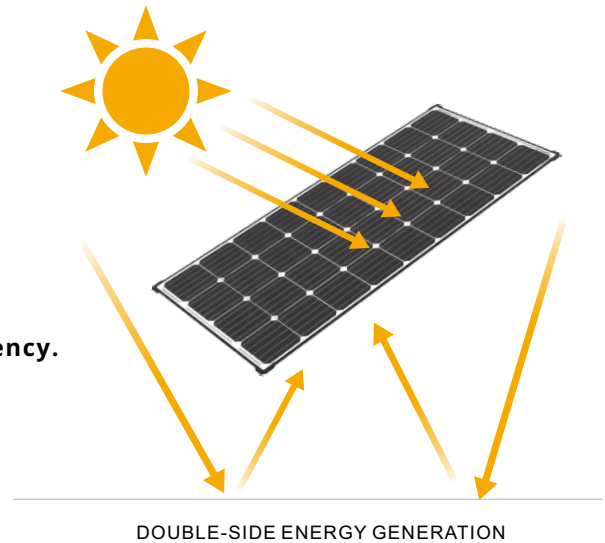
The high strength 6063 aluminium alloy, corrosion resistant anodized surface, and special structure design, makes the bracket strong, secure and reliable.



Efficient Double-Sided Solar Panel

X4S 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



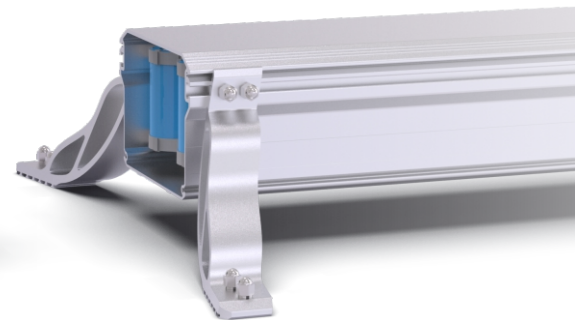
Safe and Explosion-proof



High Temperature Resistance

MPPT Controller Ultra-Intelligent

PBOX's MPPT Controller offers flexible accessibility and comprehensive protections for the whole lighting system against over voltage, over current, over charge, over discharge, over load, short circuit and ESD. It supports output power regulation by PIR motion sensor, which can reduce energy consumption and enhance battery autonomy and operational reliability. It is also capable of two remote control functions, respectively by an IR remote control unit and by PBOX Edge software, for better management or monitoring of the lights.



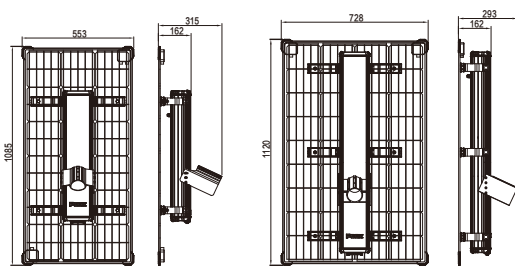
- ✓ **PIR Function**
- ✓ **Overcharge Protection**
- ✓ **Overdischarge Protection**
- ✓ **Short-circuit Protection**

X4S Series Solar Power Supply System

PARAMETERS

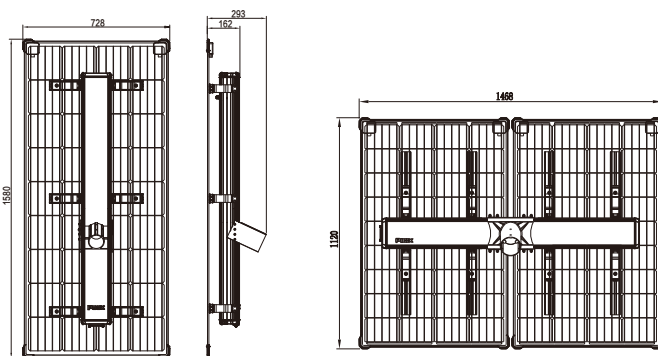
Model No.	X4S100P-SL40	X4S150R-SL50	X4S200V-SL80	X4S360X-SL80
PV Module Parameters				
Power of PV Module (W)	100	150	200	150+150
Lithium Battery Capacity (Wh)	410	615	1024	1434
Dimension of Product (mm)	1085×553×315	1120×728×315	1580×728×315	1468×1120×322
Net Weight of Product (kg)	19	28	35	46
Light Photosensitivity (lx)	60~90	60~90	60~90	60~90
Packing Parameters				
Dimensions of Product (mm)	1125×405×615	1170×220×800	1630×220×800	1520×225×1230
Gross Weight of Product (kg)	42	32	38	50
Qty Per Carton (pcs)	2	1	1	1
Environment Requirement				
Charge Temperature	0°C~51°C	0°C~51°C	0°C~51°C	0°C~51°C
Discharge Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Storage Temperature (<3 months)	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C
Storage Temperature (3~12 months)	-20°C~25°C	-20°C~25°C	-20°C~25°C	-20°C~25°C
Mounting Recommendation				
EPA (Effective Projected Area) (ft ²)	3.25	4.45	6.28	8.97
APA (Actual Projected Area) (ft ²)	2.7	3.71	5.23	7.47
Wind Load Rate (mph)	130	130	130	130
Top of Pole or Tenon OD (mm)	65~70	65~70	65~70	85~90

Physical Dimensions (mm):



X4S100P-SL40

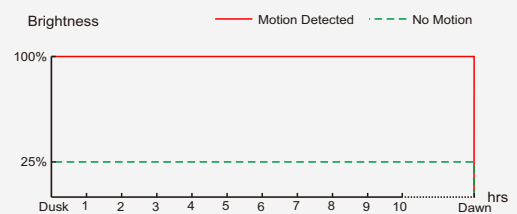
X4S150R-SL50



X4S200V-SL80

X4S300X-SL80

Working Mode:



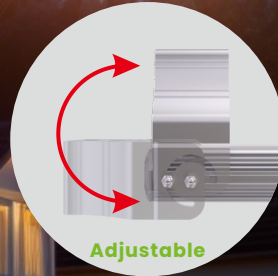
* The light source contained in this luminaire shall only be replaced by the manufacturer or its agent or a qualified person.
The torque setting for any bolts or screws used to secure the luminaire to the bracket is 14 N/m.
Use for outdoors only.

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.

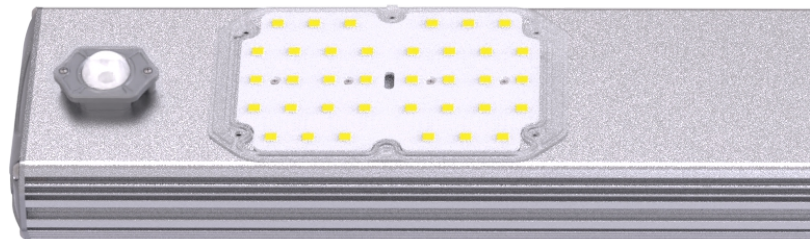
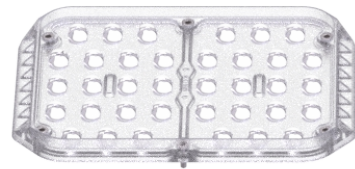
The unique design of the optical lens, allows us to eliminate the lighting pollution to the environment.



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.



IP66

IK08
IK Rating

50,000 hr
The LED life

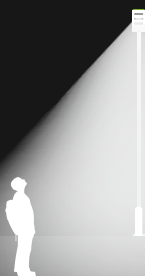
3 year
Warranty

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

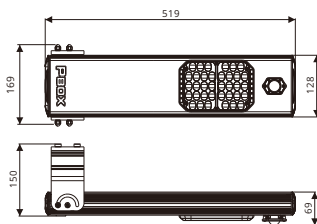


LED Street Light

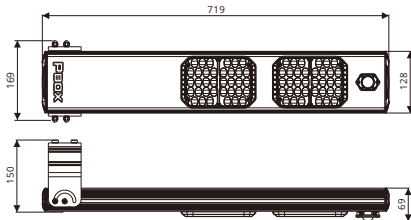
PARAMETERS

Model No.	SL30/SL40/SL50	SL60/SL70/SL80	SL100
LED Module Parameters			
Light Output (W)	30/40/50	60/70/80	100
Qty. of LED Chips	36	36×2	36×2
Optional Light Distribution	T2/T3	T2/T3	T2/T3
Typical Luminous Flux (lm)	5250/7200/8800	10200/10370/13600	17500
Color Temperature (K)	5000	5000	5000
PIR Sensor	√	√	/
Dimension of Product (mm)	519×169×150	719×169×150	719×169×150
Net Weight of Product (kg)	2.2	4	6
Storage Temperature	-20°C~45°C	-20°C~45°C	-20°C~45°C
Packing Parameters			
Dimension of Carton (mm)	630×190×190	830×190×190	1090×200×180
Gross Weight of Product (kg)	5.0	9.5	11.0
Units/Carton	2	2	2
Mounting Recommendation			
EPA (Effective Projected Area) (ft ²)	0.42	0.59	0.59
APA (Acutal Projected Area) (ft ²)	0.35	0.49	0.49
Wind Load Rate (mph)	110	110	110
Top of Pole or Tenon OD (mm)	55~60	55~60	55~60
Recommended Installation Height (m)	5~8	8~10	8~10
Recommended Installation Distance (m)	15~35	30~45	30~50

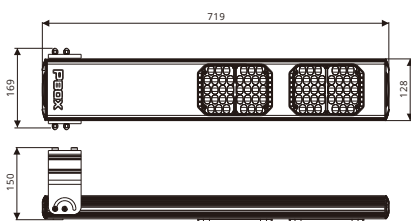
Physical Dimensions (mm):



SL30/SL40/SL50



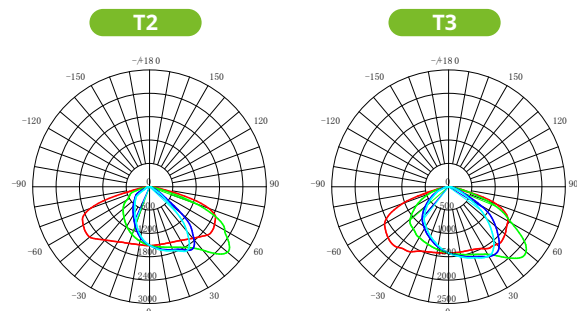
SL60/SL70/SL80



SL100

Bat Wing Light Distribution

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



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- Use for outdoors only.