

# X4S (Split type)

## Solar Street Light

Frameless Double-side Solar Panel

CE | CB | IP66 | IK08



Double-Sided  
Solar Panel



High Efficiency  
Controller



Battery Management  
System



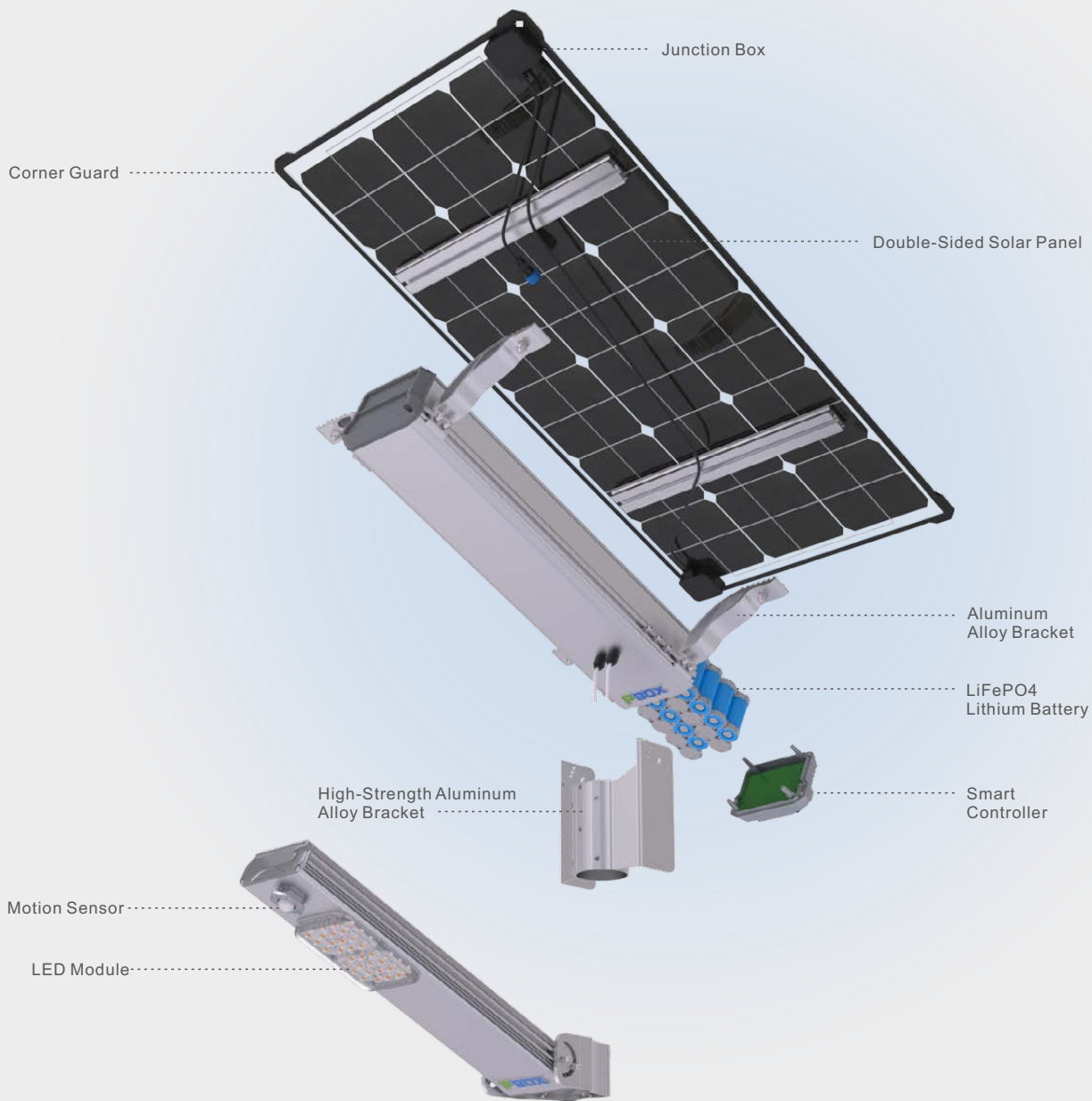
Lightweight  
Design



Industry First  
Frameless Design



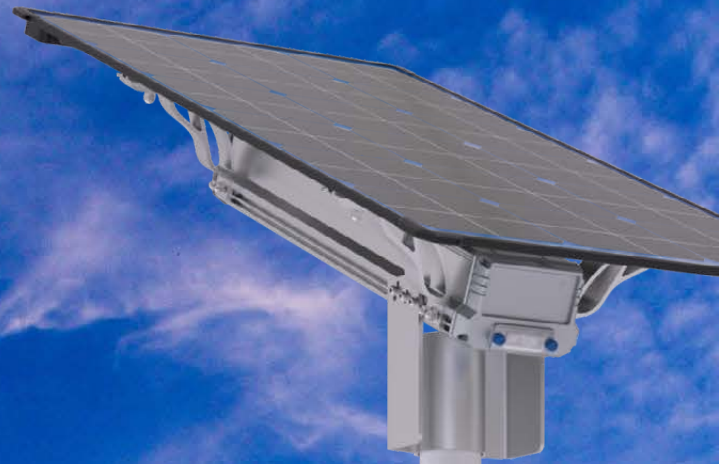
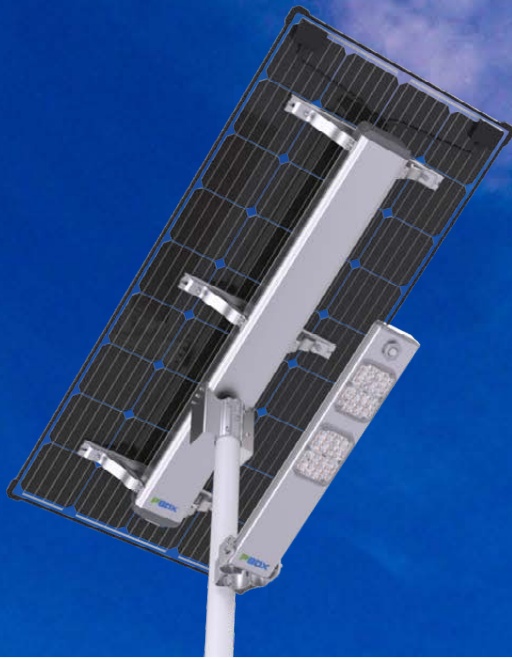
IP66 Waterproof



## Simple Design, Superior Quality

X4S Series is the first frameless solar LED street light developed by PBOX. The solar lighting system integrates high conversion double-sided monocrystalline solar panel, high luminous LED lamps, long life and environment friendly batteries with intelligent battery management system, and high-efficiency and stable controller.

The frameless solar panel prevents the build-up of dirt, allowing the system to work at maximum efficiency.



## 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.



High tensile



Light weight



Anti-corrosion



Anti-16 typhoon



Excellent heat dissipation



IK08

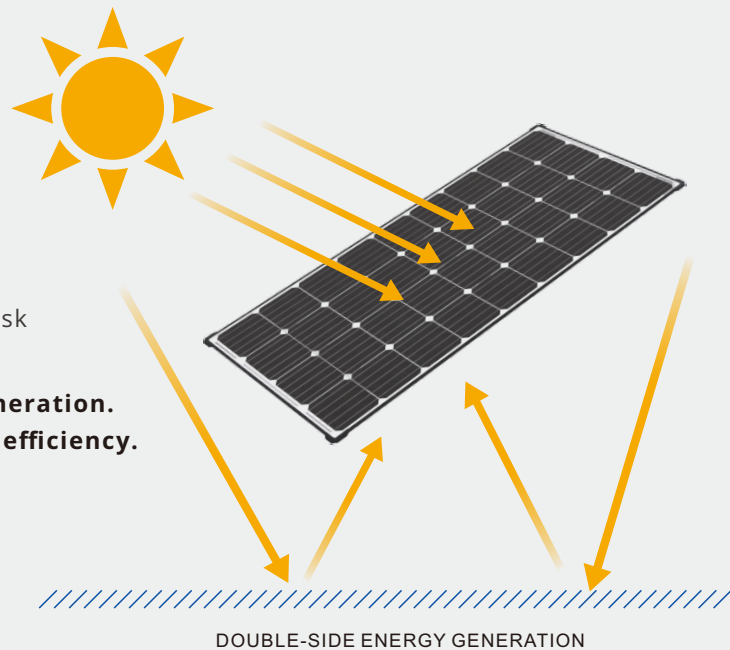
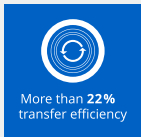


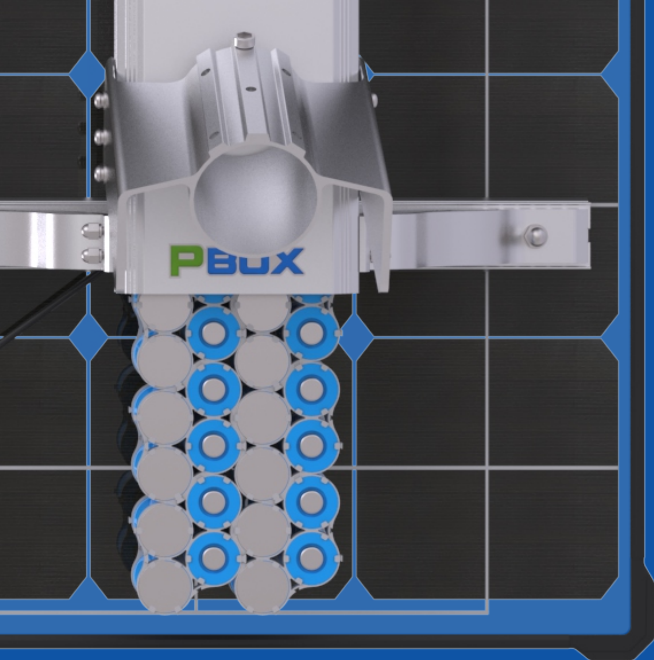


## Efficient Double-Sided Solar Panel

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.

- **Black dual glass solar module, maximum energy generation.**
- **Mono-crystalline solar panel, Up to 22% conversion efficiency.**

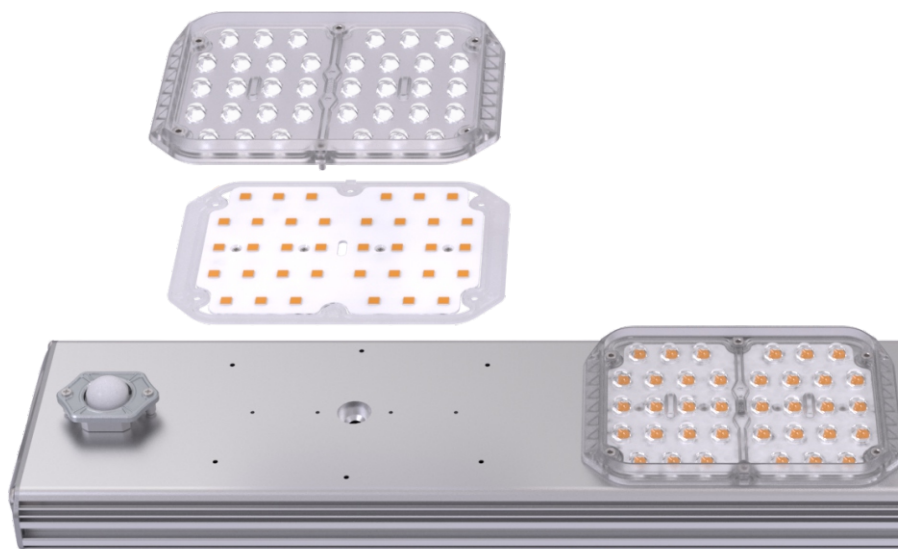
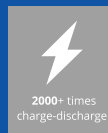




## LiFePO4 Li-ion Battery

Green and environmental-friendly LiFePO4 Li-ion battery. The battery can charge and discharge over 2000 times.

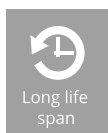
Overcharge & over-discharge protection, Stable performance, high temperature resistance.



## High Efficient LED

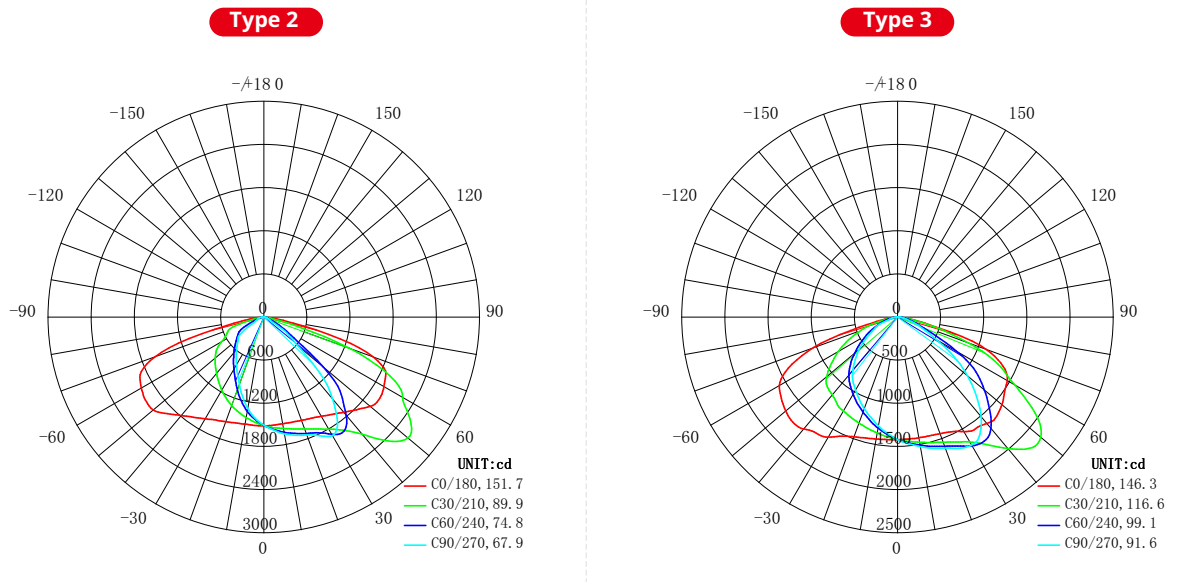
Using high-efficiency LED, luminous efficiency is up to 180lm/W (@25 C). The lights sealing lens is made of strong anti-ultraviolet PC, which has anti-aging and anti-impact performance, enabling long term usage.

With the unique design of the optic lens, arrows us to eliminate the lighting pollution to the environment.



# Bat Wing Light Distribution

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



PBOX X4S comes complete with built-in motion detection system that automatically regular 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

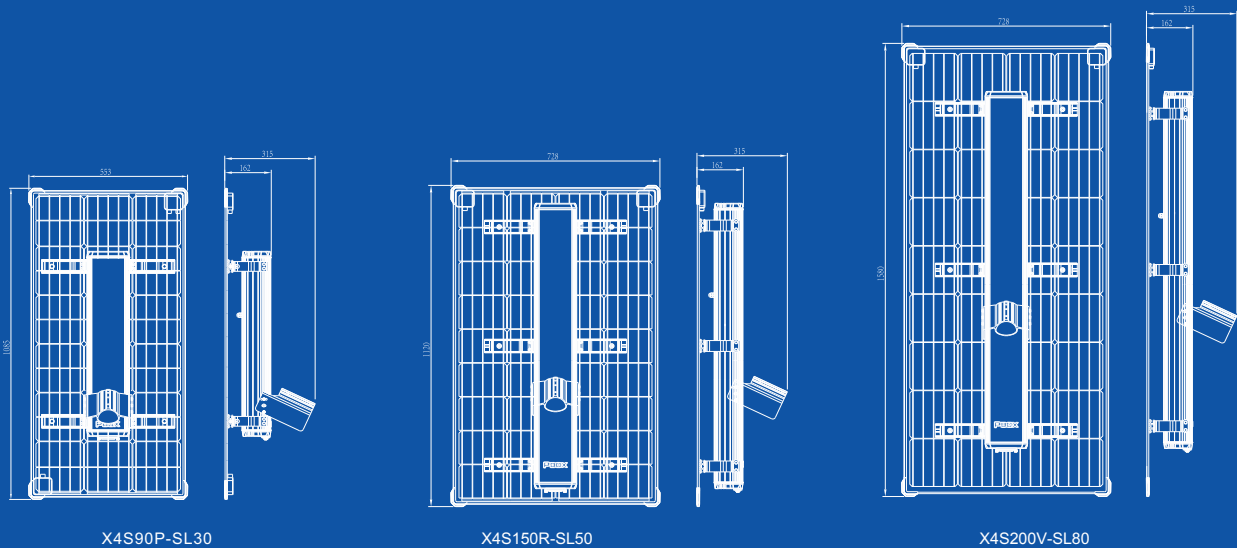


**For example:** when the battery storage capacity is sufficient, the lamp power is on standard output (100% brightness when it detects someone, 25% brightness when no one there).

## X4S Series Solar Street Light Specification

Model No.	X4S90P-SL30	X4S150R-SL50	X4S200V-SL80
<b>PV Module Parameters</b>			
Power of PV Module (W)	100	150	200
Lithium Battery Capacity (Wh)	410	615	1024
Working Mode			
Dimension of Product (mm)	1085×553×315	1120×728×315	1580×728×315
Net Weight of Product (kg)	19	28	35
Light Photosensitivity (lx)	30	30	30
<b>Packing Parameters</b>			
Dimensions of Product (mm)	1135×405×615	1170×220×800	1630×220×800
Gross Weight of Product (kg)	42	32	38
Qty Per Carton (pcs)	2	1	1
<b>Environment Requirement</b>			
Charge Temperature	0°C~54°C	0°C~54°C	0°C~54°C
Discharge Temperature	-20°C~54°C	-20°C~54°C	-20°C~54°C
Storage Temperature (<3 months)	-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
<b>Mounting Recommendation</b>			
EPA (Effective Projected Area) (ft <sup>2</sup> )	3.25	4.45	6.28
APA (Actual Projected Area) (ft <sup>2</sup> )	2.7	3.71	5.23
Wind Load Rate (mph)	130	130	130
Top of Pole or Tenon OD (mm)	65~70	65~70	65~70

### Physical Dimensions (mm)

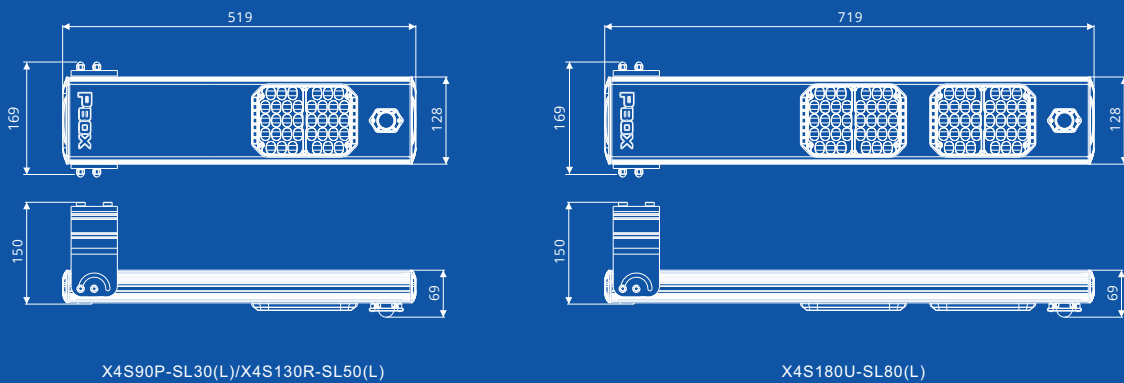


\* The light source contained in this luminaire shall only be replaced by the manufacturer, its service agent or a qualified person.  
 The torque setting for any bolts or screws used to secure the luminaire to the bracket is 14 N/m.  
 Use for outdoors only.

## LED Street Light Specification

Model No.	X4S90P-SL30(L)/X4S150R-SL50(L)	X4S200V-SL80(L)
<b>LED Module Parameters</b>		
Light Output (W)	30/40/50/60	70/80/90/100
Qty. of LED Chips	36	36×2
Optional Light Distribution	T2/T3	T2/T3
Typical Luminous Flux (lm)	5250~8500	10370~13600
Color Temperature (K)	5000	5000
PIR Sensor	●	●
Dimension of Product (mm)	519×169×150	719×169×150
Net Weight of Product (kg)	3	4
Storage Temperature	-20°C~45°C	-20°C~45°C
<b>Packing Parameters</b>		
Dimension of Carton (mm)	675×215×205	873×215×205
Gross Weight of Product (kg)	7.5	9.5
Units/Carton	2	2
<b>Mounting Recommendation</b>		
EPA (Effective projected area) (ft <sup>2</sup> )	0.42	0.59
APA (Acutal projected area) (ft <sup>2</sup> )	0.35	0.49
Wind Load Rate (mph)	110	110
Top of Pole or Tenon OD (mm)	55~60	55~60
Recommended Installation Height (m)	5~8	8~10
Recommended Installation Distance (m)	15~35	30~45

### Physical Dimensions (mm)



\* The light source contained in this luminaire shall only be replaced by the manufacturer, its service 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.