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www.pboxlighting.com

X4S (All-in-one type)
Solar Street Light
Frameless Double-side Solar Panel

CE | CB | IP66 | IK08

Double-Sided Solar Panel

High Efficiency Controller
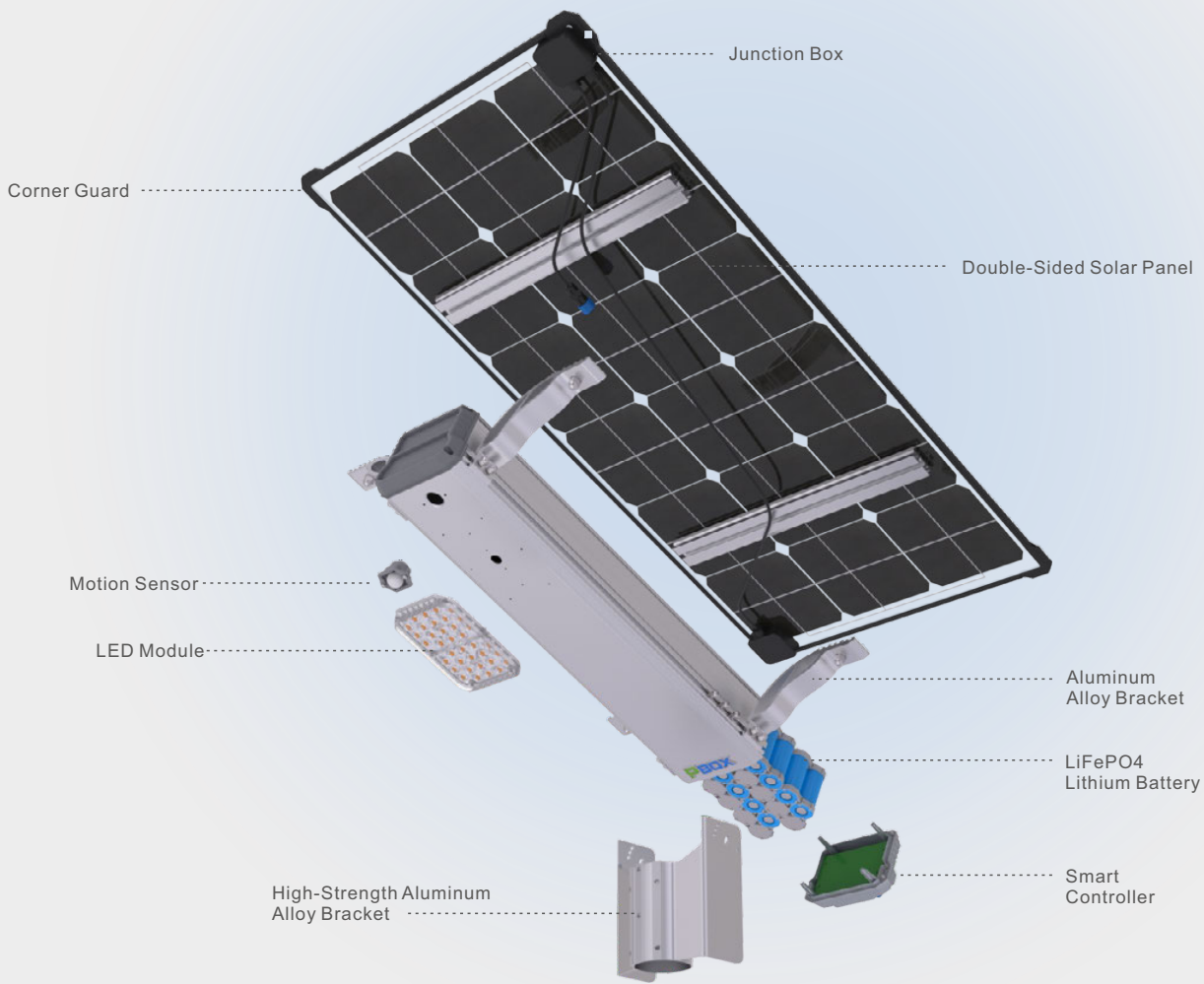
Battery Management System

LED
Lightweight Design

Industry First Frameless Design

IP66 Waterproof

Junction Box

Corner Guard

Double-Sided Solar Panel

Motion Sensor

LED Module

Aluminum
Alloy Bracket

LiFePO4
Lithium Battery

High-Strength Aluminum
Alloy Bracket

Smart
Controller

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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.

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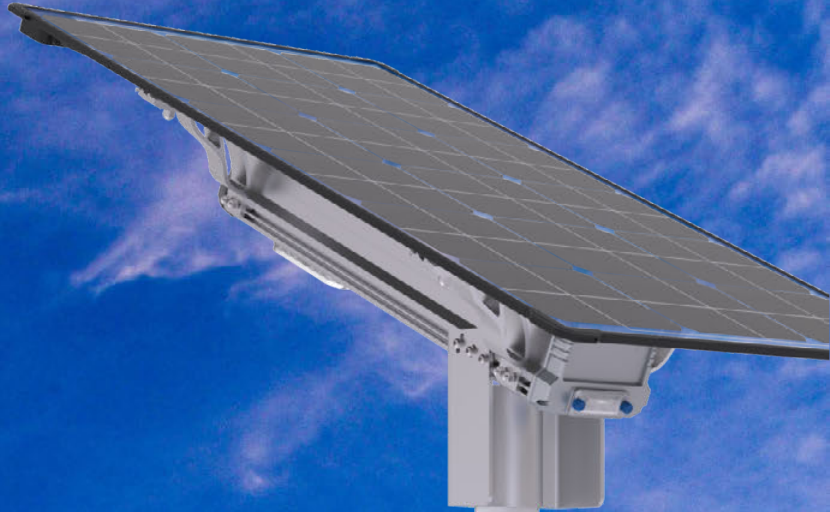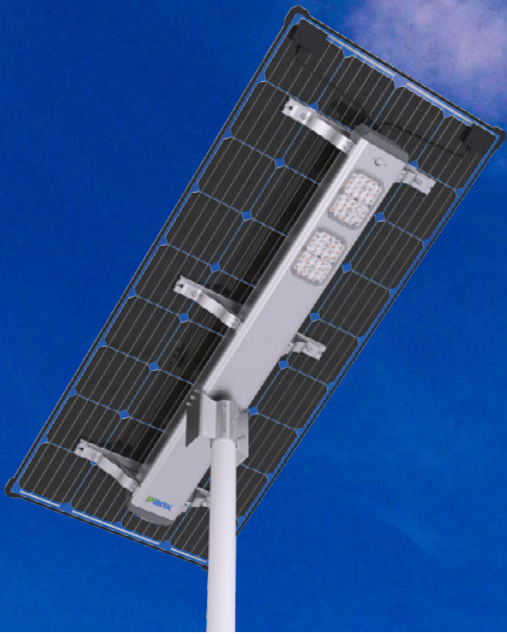
Solid & Reliable Bracket Structure

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

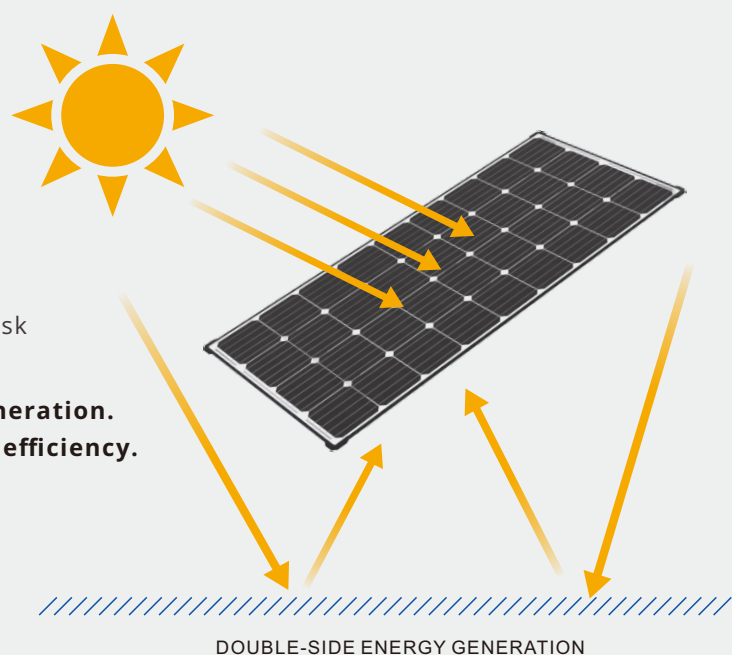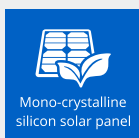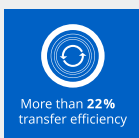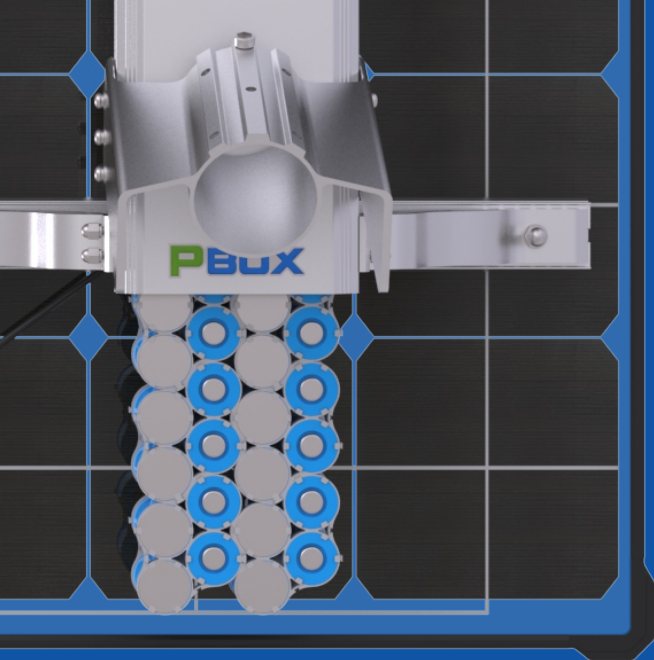| High tensile	Light weight	Anti-corrosion	Anti-16 typhoon	Excellent heat dissipation	IK08

35°

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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.**

More than **22%** transfer efficiency	Mono-crystalline silicon solar panel	**25** years life span

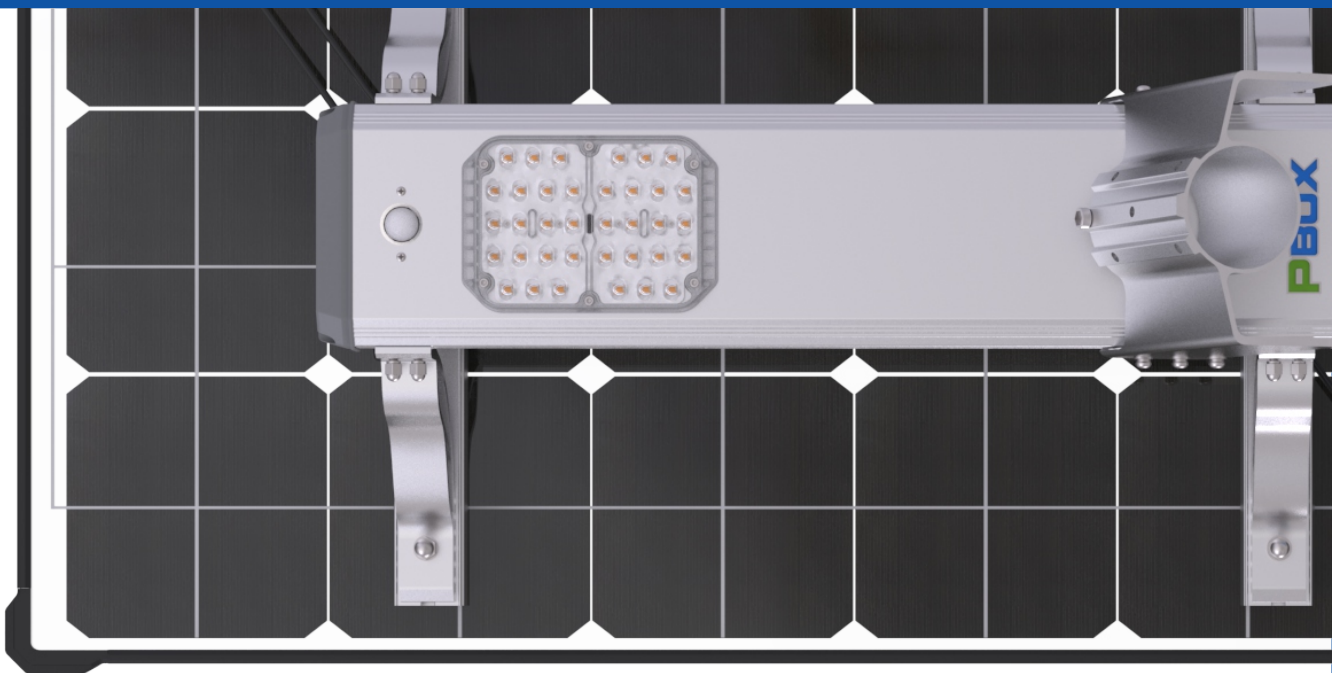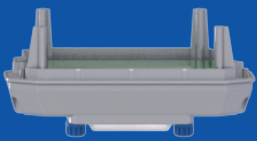DOUBLE-SIDE ENERGY GENERATION

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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.

8 YEARS		
Over **8** years battery life span	**2000**+ times charge-discharge	Eco-friendly lithium battery

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.

High luminous Efficiency	Long life span	Low heat emission	Stable and prolonged 100 lumen output
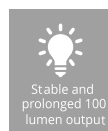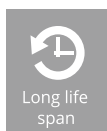
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Bat Wing Light Distribution

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

Type 2

UNIT:cd
— C0/180, 151. 7
— C30/210, 89. 9
— C60/240, 74. 8
— C90/270, 67. 9

Type 3

UNIT:cd
— C0/180, 146. 3
— C30/210, 116. 6
— C60/240, 99. 1
— C90/270, 91. 6
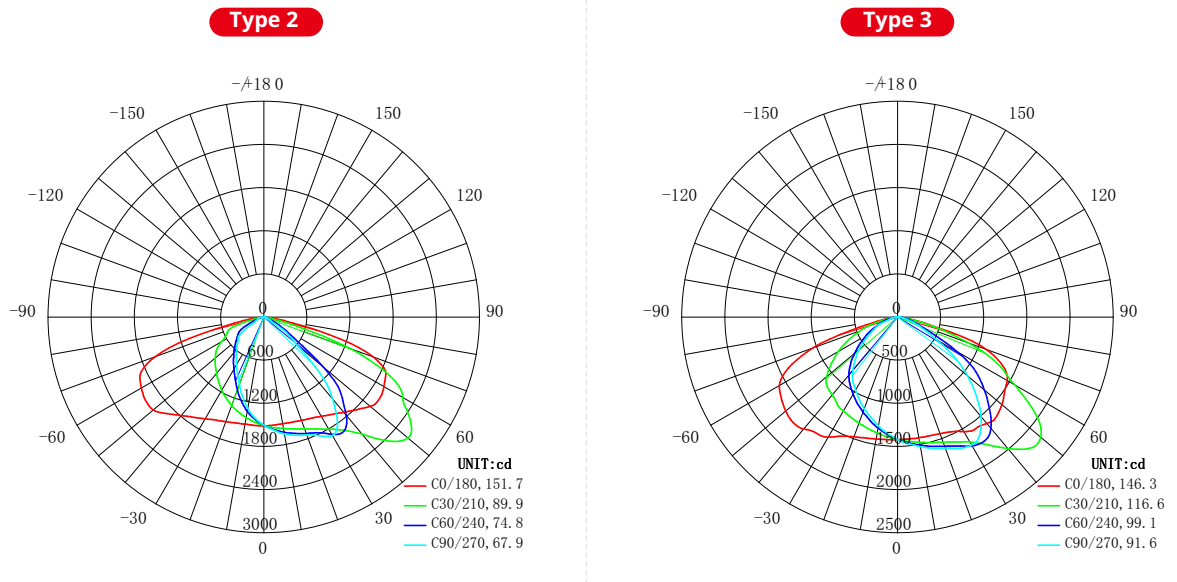
PBOX X4S comes complete with built-in motion detection system that automatically regular the light source from full bright to dim mode to increase battery autonomy.

100% Brightness when motion is detected

25% Brightness when no motion is detected

Sufficient Charge

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).

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X4S Series Solar Street Light Specification

Model No.	X4S90P30	X4S150R50	X4S200V80
PV Module Parameters			
Power of PV Module (W)	100	150	200
Lithium Battery Capacity (Wh)	410	615	1024
PIR Sensor	●	●	●
Working Mode			
Dimension of Product (mm)	1085×553×315	1120×728×315	1580×728×315
Net Weight of Product (kg)	19	28	35
Light Parameters			
Light Output (W)	30/40/50	40/50/60	70/80
Qty. of LED Chips	36	36	2×36
Optional Light Distribution	T2	T2	T2
Typical Luminous Flux (lm)	5250~8250	6800~10200	13600
Color Temperaure (K)	5000	5000	5000
Min. Working Time (hours) — Bright Mode	9	10	11
Min. Working Time (hours) — DIM Mode (25%)	35	42	44
Light Photosensitivity (lx)	30	30	30
Packing Parameters			
Dimension of Carton (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
Environment Requirement			
Charge Temperature	0℃~54℃	0℃~54℃	0℃~54℃
Discharge Temperature	-20℃~54℃	-20℃~54℃	-20℃~54℃
Storage Temperature (<3 months)	-20℃~45℃	-20℃~45℃	-20℃~45℃
Storage Temperature (3~12 months)	-20℃~25℃	-20℃~25℃	-20℃~25℃
Mounting Recommendation			
EPA (Effective Projected Area) (ft^2)	3.25	4.45	6.28
APA (Actual Projected Area) (ft^2)	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
Recommended Installation Height (m)	4~6	5~8	8~10
Recommended Installation Distance (m)	20~30	20~30	30~45

Physical Dimensions (mm)

X4S90P30   X4S150R50   X4S200V80
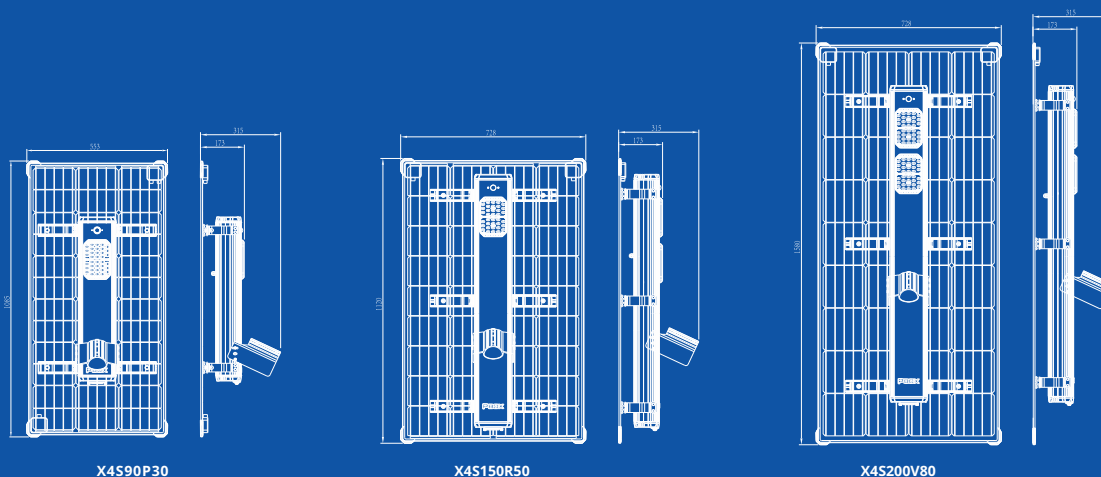
* The light source contained in this luminaire shall only be replaced by the manufacturer, its service agent or a qualified person.

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

Use for outdoors only.

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