



Industry's First Frameless Design

X4S90

Solar Power Supply System

Double-Sided Solar Panel



Double-Sided
Solar Panel



High
Efficiency
Controller



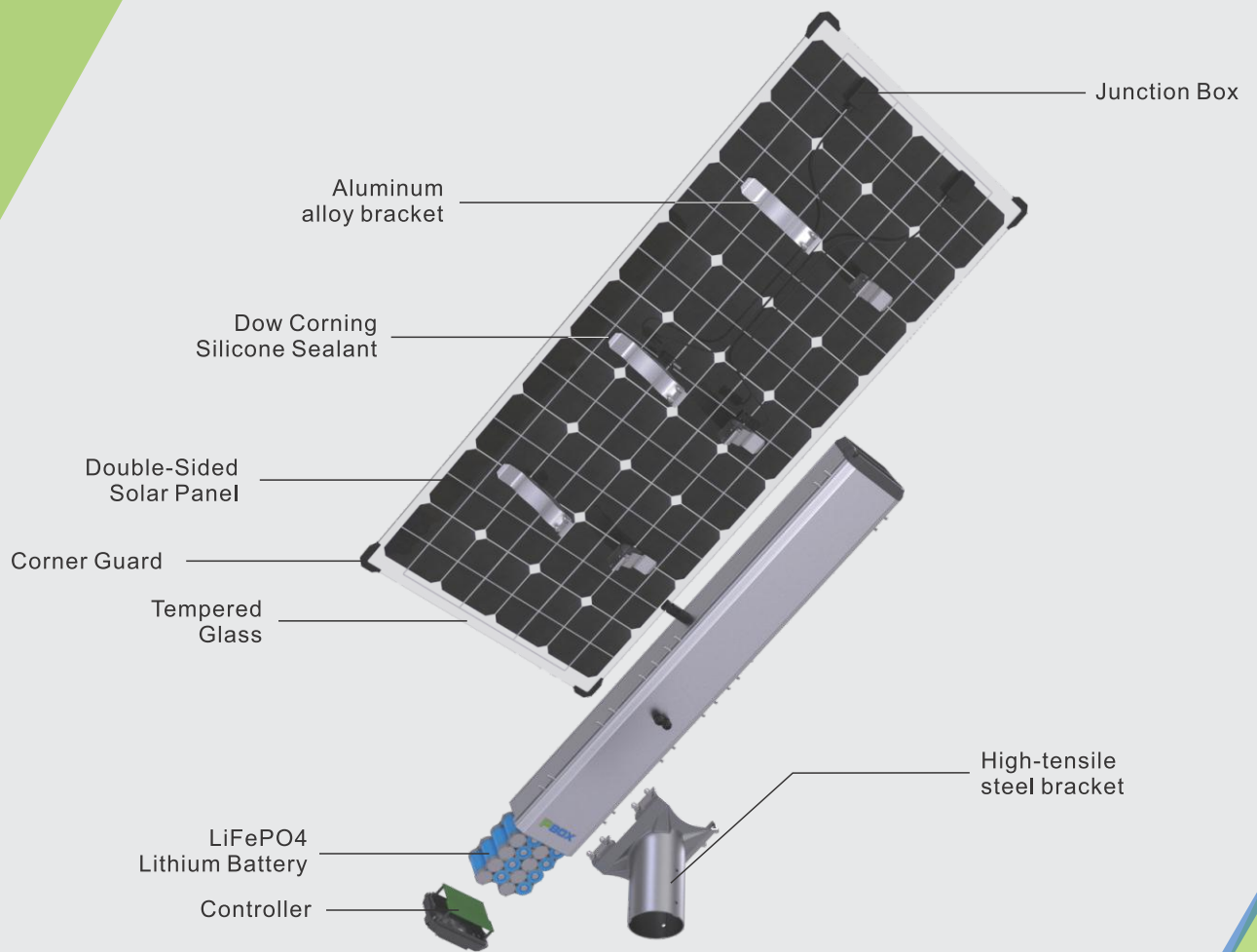
Battery
Management
System



Lightweight
Design



IP65



X4S Series is the first frameless design solar products launched by PBOX, which is a solar system integrating high conversion double-sided solar panel, intelligent battery management system and high-efficiency controller.

The frameless solar panel can reduce the build-up of dirt to a maximum extent. Originality design of the high tensile bracket ensures the user reliability.



Traditional Frame PV



X4 Frameless PV



Frameless Design



Compared with traditional solar panel with frame, X4S frameless solar panel is much easier to maintain and clean, and can reduce the built-up of dirt to a maximum extent.



Innovative corner protector effectively reduces collision damage and improves safety during transportation and installation.



Efficient Double-Sided Solar Panel

X4S uses the specially designed double-sided PV module and tempered glass on the backboard of the panel, which eliminates the risk of degradation of the back panel after long-term use.

- Black dual glass solar module is extremely durable.
- Solar Panel Power: Range from 85W to 260W, Conversion efficiency up to 21%.



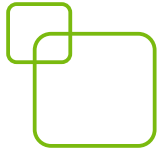
Solid and Reliable Bracket Structure

The bracket adopts high strength 6063 aluminium alloy, corrosion-resistant anodized surface, and special structure design. It greatly improves reliability and security.



Battery and Failure Indication

The green light indicates the battery capacity when the unit operates abnormally, the red light will trigger out and blink



LiFePO4 Lithium Battery

- 01 Adopt green and environmentally-friendly lithium iron phosphate battery, the cycle charge and discharge over 2000 times.
- 02 5cm distance from the battery box to the solar panel, which will assist in heat dissipation performance.

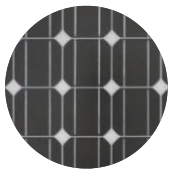


High performance charging controller, provides full protection for the system

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

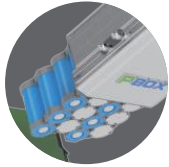


SOLAR POWER SUPPLY SYSTEM



High-efficient Solar Panel

Monocrystalline/Double-sided



Long-lifespan LiFePO4 Lithium-ion Battery

Top grade LiFePO4 Lithium-ion Battery, supported with patented dual battery management technology, makes the battery group a life expectancy of 6~8 years.



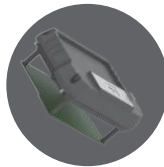
Intelligent Control Unit

Self-developed charging and discharging control unit, makes the solar panel a better solar power absorbing ability in rainy days



Reinforced Bracket

Reinforced bracket with anti-theft design, resistant to violent typhoons up to force 16.



IP65 Waterproof

Waterproof and anti-dust design certified with IP65 requirements, to well stand harsh weather conditions.



Model No.	X4S90
Physical Parameters	
Power of PV Module (W)	90
Lithium Battery Capacity (Wh)	615
Battery Heating Function	/
Net Weight of Product (kg)	19.5
Packing Parameters	
Dimension of Carton (mm)	1100×575×205
Gross Weight of Product (kg)	22.5
Packing (pcs)	1
Environment Requirements	
Charge Temperature	0°C~60°C
Discharge Temperature	-20°C~60°C
Storage Temperature	0°C~45°C
Mounting Recommendations	
Wind Load Rate (mph)	110
Top of Pole or Tenon OD (mm)	80~95
Physical Dimensions (mm)	

