PBOX®

PT. Wedosolar Indonesia
Alternative Energy Solutions

3 Years Warranty

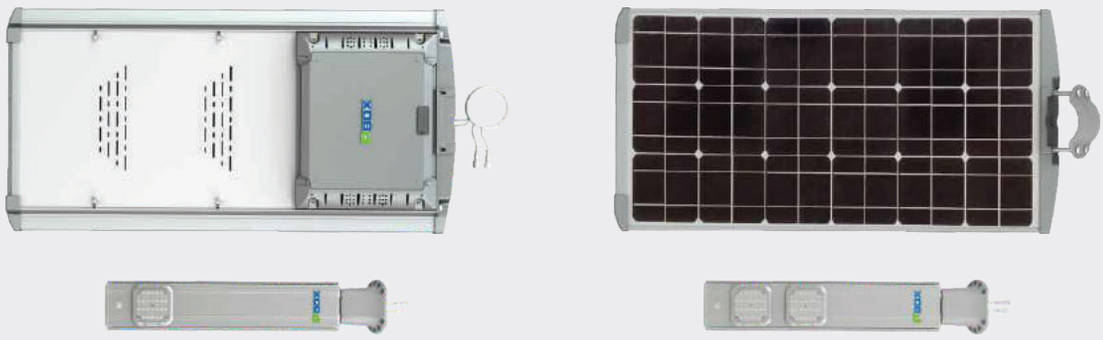
Include Battery

X5 / X5 PLUS (Split Type)

Solar Street Light

- Monocrystalline Solar Module
- Efficient Controller
- Lithium-ion Batteries
- CREE LED
- Anti-Typhoon
- Motion Sensor
- IP65

www.wedosolarindonesia.com

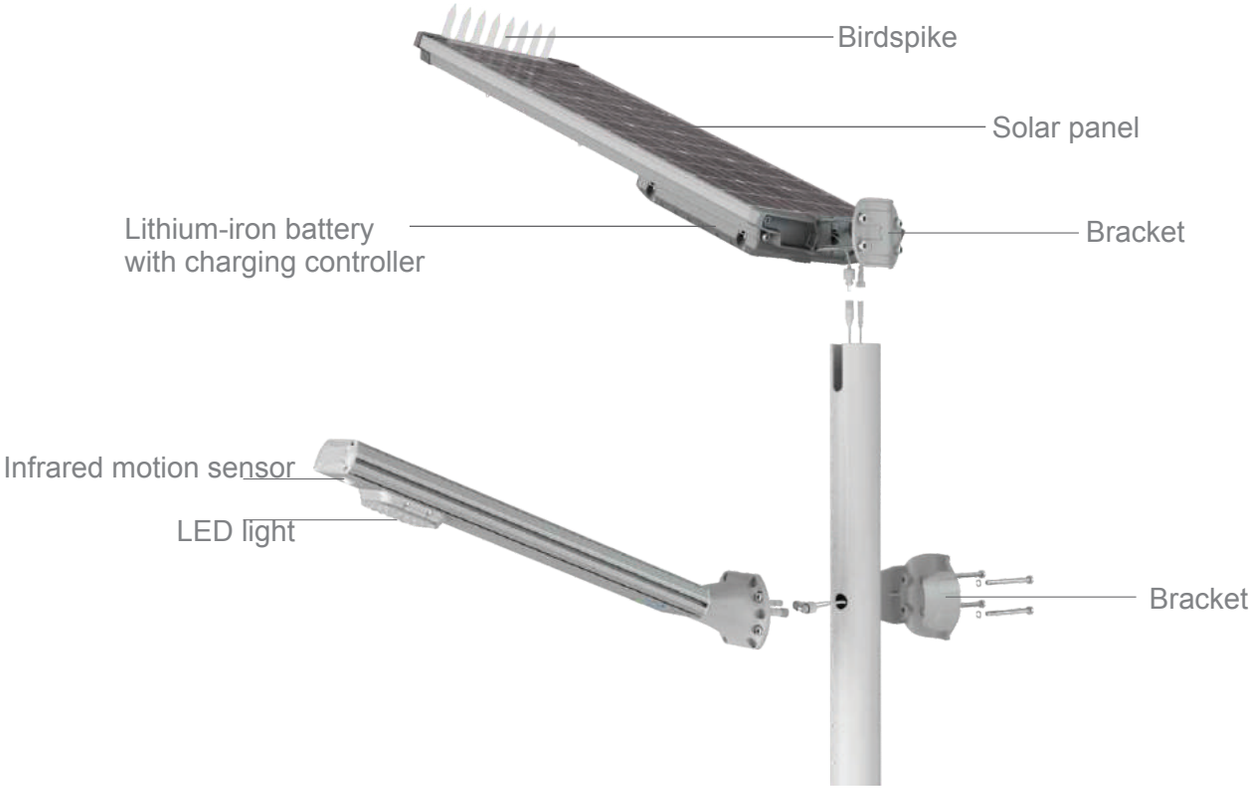


Simple installation, extremely practical

The X5 split units can capture the maximum energy by setting direction of solar engine facing to the strongest solar radiation while lamp face to the site you want to illuminate.

With split design, users will take the benefit of flexible installation as well as all in one features.

The X5 will switch on when the sun sets and switch off when the sun rises. When there is no one around, it will dim itself to improve power efficiency, however, when any one approaches, it will increase its brightness by a factor of four.



Protected against all weathers

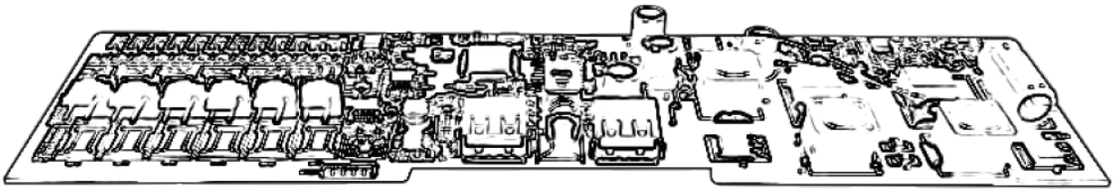
The solar streetlights have to survive extreme cold and hot weather. The modular structure of the X5 is extremely good at protecting the essential parts of the streetlights. It reaches IP65 protection grade, effectively isolating humidity, dust and heat invasion, making it easy to overcome the challenges of harsh outdoor environments.

Battery determines system stability; Management determines battery's stability

Traditional solar powered streetlights use lead acid batteries that have a very short life cycle and are difficult to maintain, creating massive environmental pollution and a very low ROI. We therefore decided to use Lithium-ion

batteries that have 3 times the life cycle, 4 times the discharge ability and are not harmful to the environment in our sealed product. However Lithium-ion batteries need a proper battery management system to avoid the "barrel effect". X5 uses an exclusive patented technology battery management program, enabling the life span of battery to last for over 6 years, greatly improving the ROI and at the same time helping to sustain the earth's resources.

When the optional exclusive extreme low temperature protection device is installed, X5 can work at -40℃ thus making it suitable for alpine regions.



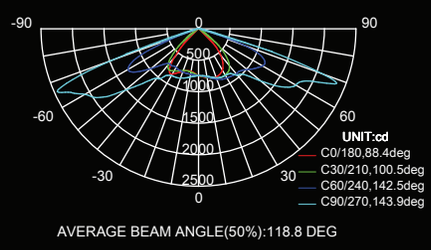
High performance charging controller, provides full protection for the system

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

CREE LED ALUMINUM LAMP BASE
creates a first-class light source

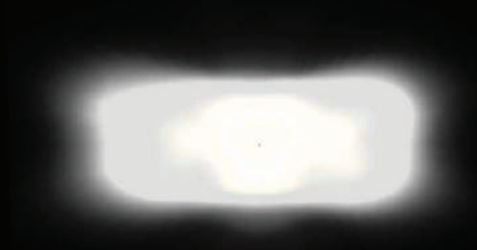
By choosing the CREE 5W LED chips, single lumen value at 130lm/W (@350mA), with the aluminum lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very little fading. The sealed lenses are made of strong UV protected PC and are aging and shock resistant; The well optimized light distribution, makes for a more uniform and wider lighting area.

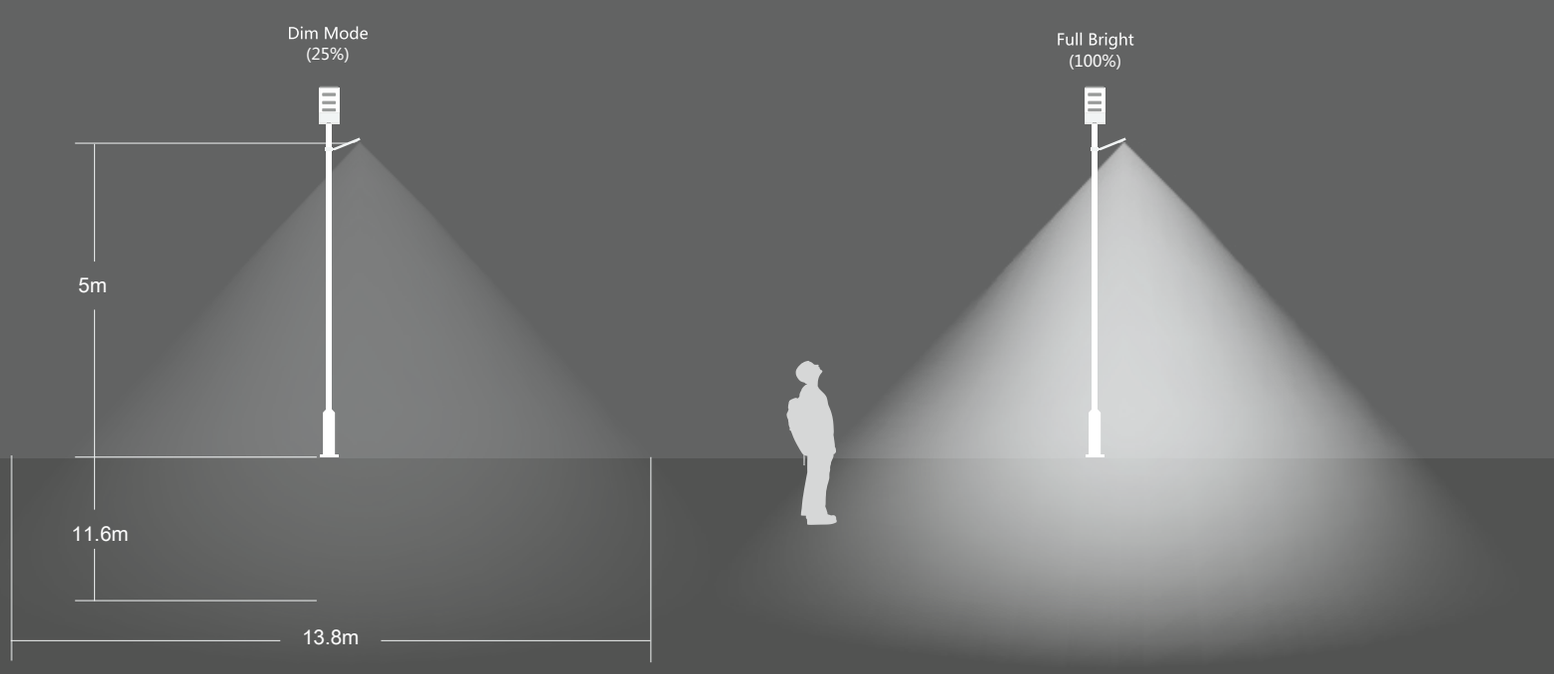
Bat wing light distribution curve



AVERAGE BEAM ANGLE(50%):118.8 DEG

Light intensity diagram





Motion detection

PBOX X5 comes complete with built-in motion detection system that automatically regular the light source from full bright (100%) to dim mode (25%) to increase battery autonomy.

High Efficient Monocrystalline Module

18.5% photoelectric Conversion Efficiency
Ending with 85% output in 20 years
3.2mm tempered glass lamination for excellent mechanical load resistance .

SUPER ALUMINUM FRAME
makes this a tough unit

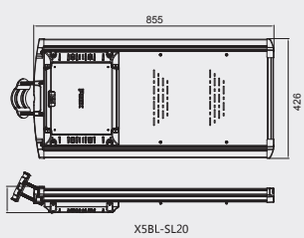
PBOX X5 uses a super aluminum frame, which is light weight, strong and corrosion resistant, making it able to resist strong wind load of up to 130MPH. Stainless steel screws are used as fasteners to protect against any harsh weather.

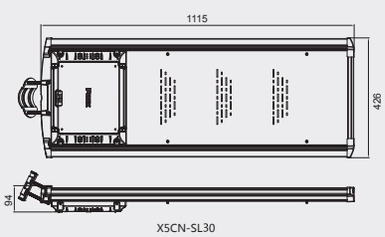
PBOX X5 (Split Type)

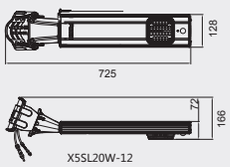
√ : Standard / : N/A * : Packaging of 2 units per carton.

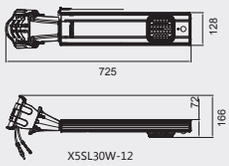
Solar Engine & LED Street Light Technical Data

Model No.	X5BL-SL20 (X5SL20W-12)	X5CN-SL30 (X5SL30W-12)
Physical Parameters		
Power of PV Module (W)	50	70
Lithium Battery Capacity (Wh)	230	346
Battery Heating Function	/	/
Dimension of Product (mm)	855×426×94	1115×426×94
Net Weight of Product (kg)	10	13.5
Dimension of Carton (mm)	925×260×480 *	1185×145×480
Gross Weight of Product (kg)	23 *	15
Mount		
EPA (effective projected area) (ft^2)	2.06	2.69
APA (actual projected area) (ft^2)	1.72	2.24
Wind Load Rate (mph)	110	130
Top of Pole or Tenon OD (mm)	75~90	75~90
Light Parameters		
Light output (W)	20	30
Typical Luminous Flux (lm)	2400	3600
LED Chip	CREE 5W LED	CREE 5W LED
Qty. of LED Chips (pcs)	18	24
Optical Distribution	Bat Wing	Bat Wing
Visual Angle (°)	140°× 70°	140°× 70°
Color Temperature (K)	5000	5000
Light Photosensitivity (lx)	30	30
Motion Sensor	√	√
Physical Parameters		
Dimension of Product (mm)	725×128×72	725×128×72
Net Weight of Product (kg)	3.8	3.8
Dimension of Carton (mm)	760×220×240	760×220×240
Gross Weight of Product (kg)	5.2	5.2
Mount		
EPA (effective projected area) (ft^2)	0.45	0.45
APA (actual projected area) (ft^2)	0.37	0.37
Wind Load Rate (mph)	110	110
Recommended Installation Height (m)	4~6	5~8
Recommended Installation Distance (m)	15~25	20~30
Top of Pole or Tenon OD (mm)	65~90	65~90









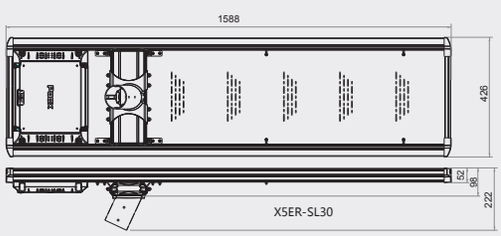
Technical specifications are subject to change without prior notice.

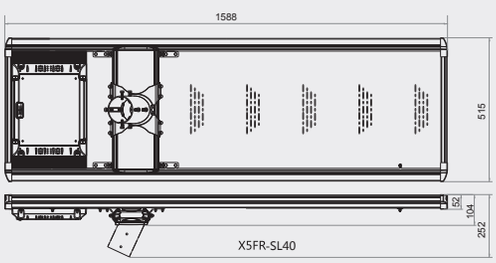
PBOX X5 PLUS (Split Type)

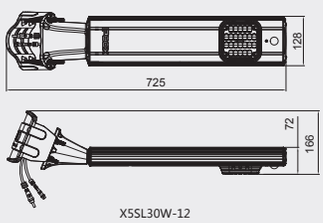
√ : Standard / : N/A * : Packaging of 2 units per carton.

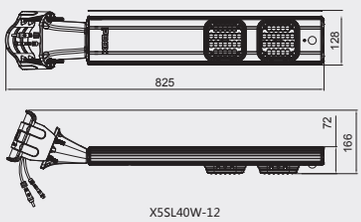
Solar Engine & LED Street Light Technical Data

Model No.	X5ER-SL30 (X5SL30W-12)	X5FR-SL40 (X5SL40W-12)
Physical Parameters		
Power of PV Module (W)	100	130
Lithium Battery Capacity (Wh)	615	844
Battery Heating Function	/	/
Dimension of Product (mm)	1588×426×98	1588×515×104
Net Weight of Product (kg)	22	24
Dimension of Carton (mm)	1660×145×480	1660×140×580
Gross Weight of Product (kg)	25	27
Mount		
EPA (effective projected area) (ft^2)	3.69	4.44
APA (actual projected area) (ft^2)	3.08	3.70
Wind Load Rate (mph)	130	130
Top of Pole or Tenon OD (mm)	65~70	65~70
Light Parameters		
Light output (W)	30	40
Typical Luminous Flux (lm)	3600	4800
LED Chip	CREE 5W LED	CREE 5W LED
Qty. of LED Chips (pcs)	24	36
Optical Distribution	Bat Wing	Bat Wing
Visual Angle (°)	140°× 70°	140°× 70°
Color Temperature (K)	5000	5000
Light Photosensitivity (lx)	30	30
Motion Sensor	/	/
Physical Parameters		
Dimension of Product (mm)	725×128×72	825×128×72
Net Weight of Product (kg)	3.8	4.5
Dimension of Carton (mm)	760×220×240	880×220×240
Gross Weight of Product (kg)	5.2	6
Mount		
EPA (effective projected area) (ft^2)	0.45	0.51
APA (actual projected area) (ft^2)	0.37	0.43
Wind Load Rate (mph)	110	110
Recommended Installation Height (m)	5~8	7~10
Recommended Installation Distance (m)	20~30	25~40
Top of Pole or Tenon OD (mm)	65~90	65~90









Technical specifications are subject to change without prior notice.

PT. Wedosolar Indonesia

Alternative Energy Solutions

Ruko Alam Sutera Town Center,
Jl. Alam Sutera Boulevard Blok 10-D No.18,
Tangerang Selatan 15325, INDONESIA.
Tel : (+62-21) 29211462, 29853852, 29853853

Email : sales@wedosolarindonesia.com
Website : www.wedosolarindonesia.com