



Solar Sky Light

(All-in-One)

Solar Street Light



Monocrystalline
Solar Module



Efficient
Controller



LiFePO4 Li-ion
Battery



CREE LED



All-in-One



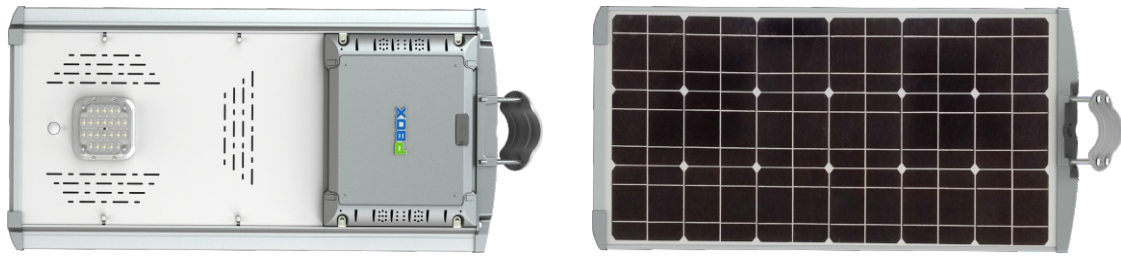
Anti-Typhoon



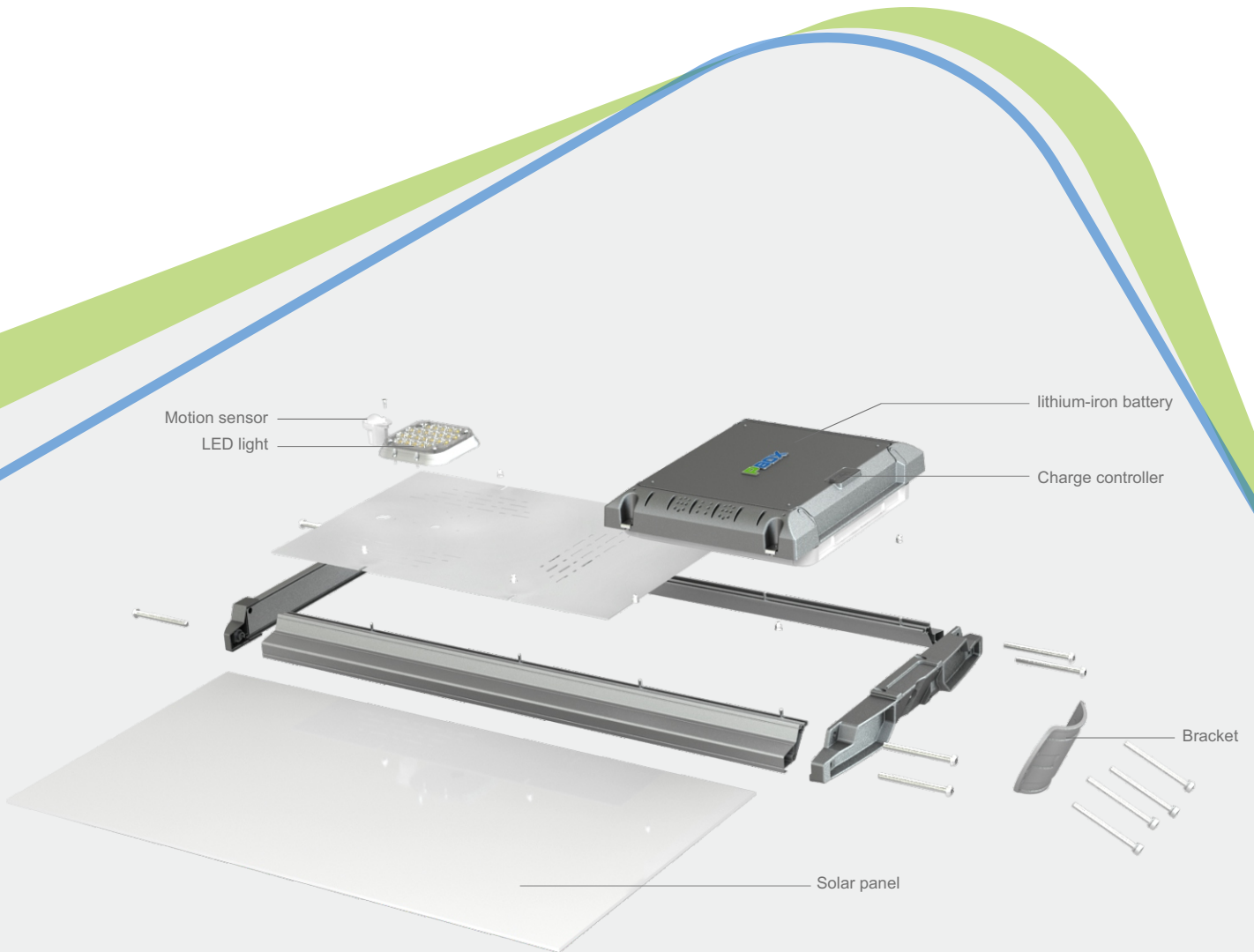
Motion Sensor



IP65



Simple, Practical, Cost Effective Light



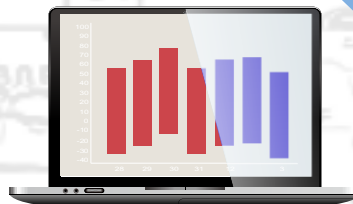
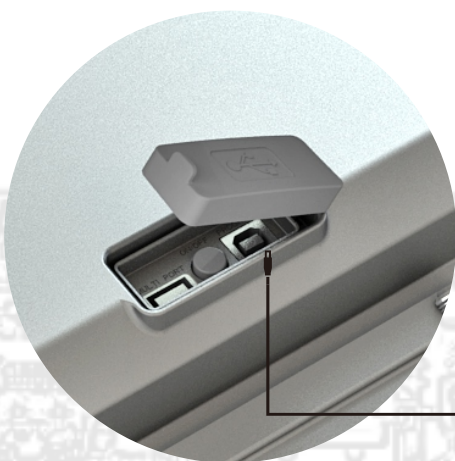
Advance Design & Structure



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 LiFePO4 Li-ion Battery batteries need a proper battery management system to avoid the "barrel effect". 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.



High performance charge controller. Optional Programming

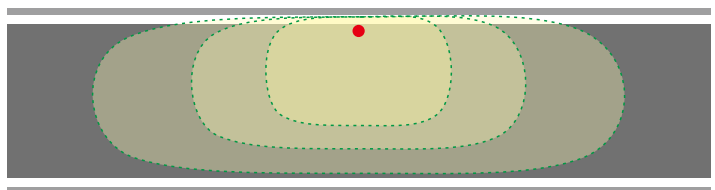
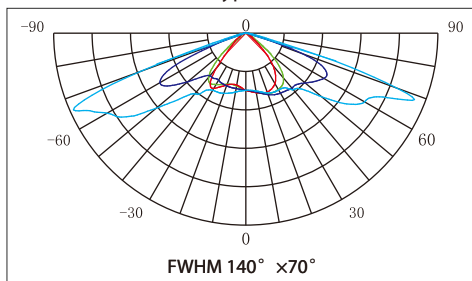
Advance charge controller generates more power, especially during cloudy & rainy days. Over current, over voltage, over heat protection. USB interface allows adjusting operational modes.



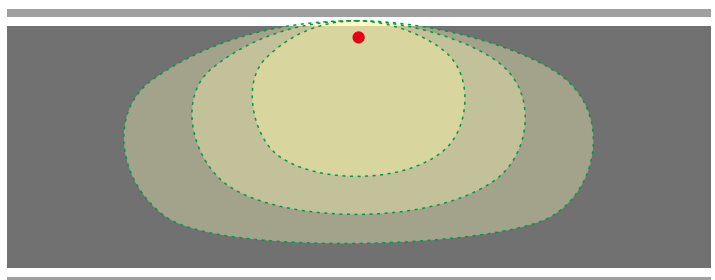
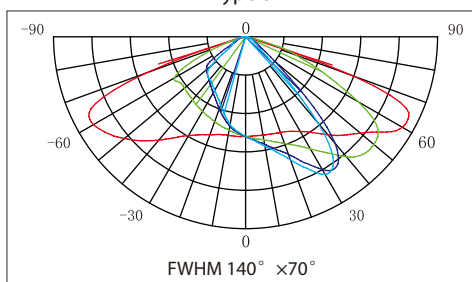
CREE LEDs 180lm/w World Class light source

Advance CREE 5W LED chips, rated at **180lm/w** Aluminum heat sink & optical lens,
Fully sealed LED module. High brightness & long life. Durable UV protected PC
shock resistant cover. Optimized light distribution.

Type 2



Type 3



Intelligent Power Regulation

The intelligent battery control system can automatically adjust the light output power according to the battery storage capacity, effectively extend the working time of the light and ensures the continuous working of the solar street light even in continual rainy days.

Sufficient Charge

100% Brightness when people nearby



25% Brightness when no one's around



Low Battery

20% Brightness when people nearby



5% Brightness when no one's around



Light automatically turns on at 25% brightness. When a person is detected within the area the light will brighten to 100% power level.

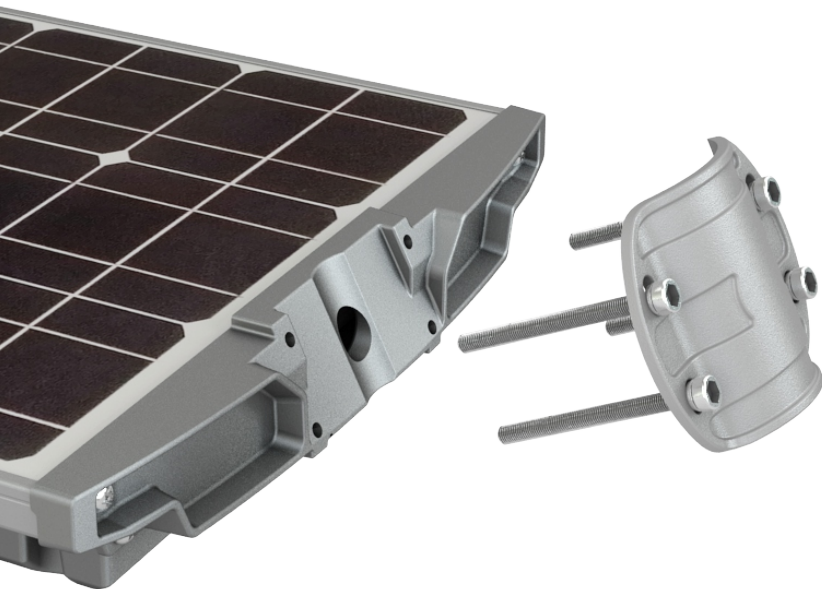
At insufficient battery levels, the light reduces output to 5% & 20% brightness levels



Highly Efficient Monocrystalline Module

19.6% photoelectric Conversion Efficiency
85% output after 20 years
3.2mm tempered glass lamination for
excellent mechanical load resistance.

130mph Wind Tested !



Solar Sky Light Technical Data

Model No.	L10-S35	L20-S55	L30-S55	L30-S70	L30-S70
Physical Parameters					
Power of PV Module (W)	35	55	55	70	70
LiFePO4 Li-ion Battery Capacity (Wh)	154	230	308	250	460
Qty. of LED Chips (pcs)	10	18	24	10	24
PIR Sensor	√	√	√	√	√
Battery Heating Function	/	/	/	√	/
Net Weight of Product (kg)	8.5	10	10.5	12	13.5
Demision of Product (mm)	600×426×94	865×426×94	865×426×94	1115×426×94	1115×426×94
Controller Type	Touch-tone controller	Touch-tone controller	Touch-tone controller	Touch-tone controller	Touch-tone controller

Light Parameters					
Light output (W)	15	20	30	15	30
Light Distribution	Type 2	Type 2, Type 3	Type 2, Type 3	Type 2, Type 3	Type 2, Type 3
Color Tempaure (K)	5000	5000	5000	5000	5000
Typical Luminous Flux (lm)	1500	3000	4500	2250	4500
Min. Working Time (Hours)	Full Bright	9	10	9	15
	Dim Mode	36	40	36	60

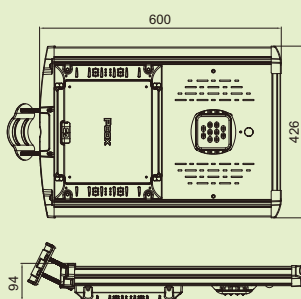
Lighting Mode	<p style="text-align: center;">Brightness — Motion Detected - - - No Motion</p> <p style="text-align: center;">100% hrs</p> <p style="text-align: center;">25%</p> <p style="text-align: center;">Dusk 1 2 3 4 5 6 7 8 9 10 Dawn</p>				
	Light Photosensitivity (lx)	30	30	30	30

Packing Parameters					
Dimension of Carton (mm)	670×260×480	940×260×480	940×260×480	1185×145×480	1185×145×480
Gross Weight of Product (kg)	21	23	24	14	15
Packing (pcs)	2	2	2	1	1

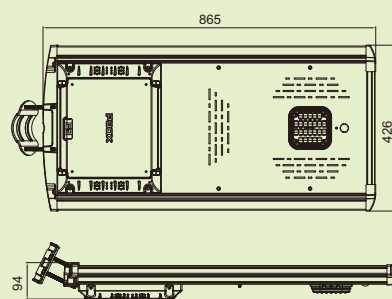
Environment Requirements					
Charge Temperature	0°C~60°C	0°C~60°C	0°C~60°C	-30°C~60°C	0°C~60°C
Discharge Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-30°C~60°C	-20°C~60°C
Storage Temperature	0°C~45°C	0°C~45°C	0°C~45°C	0°C~45°C	0°C~45°C

Mounting Recommendations					
EPA (effective projected area) (ft ²)	1.45	2.06	2.06	2.69	2.69
APA (acutal projected area) (ft ²)	1.21	1.72	1.72	2.24	2.24
Wind Load Rate (mph)	110	110	110	130	130
Top of Pole or Tenon OD (mm)	75~90	75~90	75~90	75~90	75~90

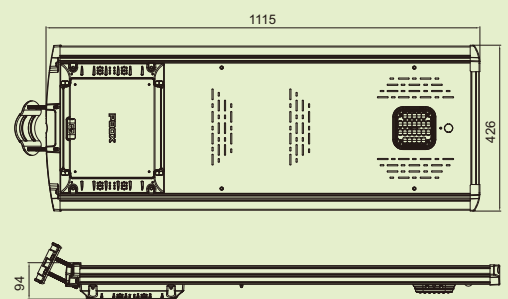
Physical Dimensions (mm)



L15-S35



L20-S55 / L30-S55



L15-S70 / L30-S70