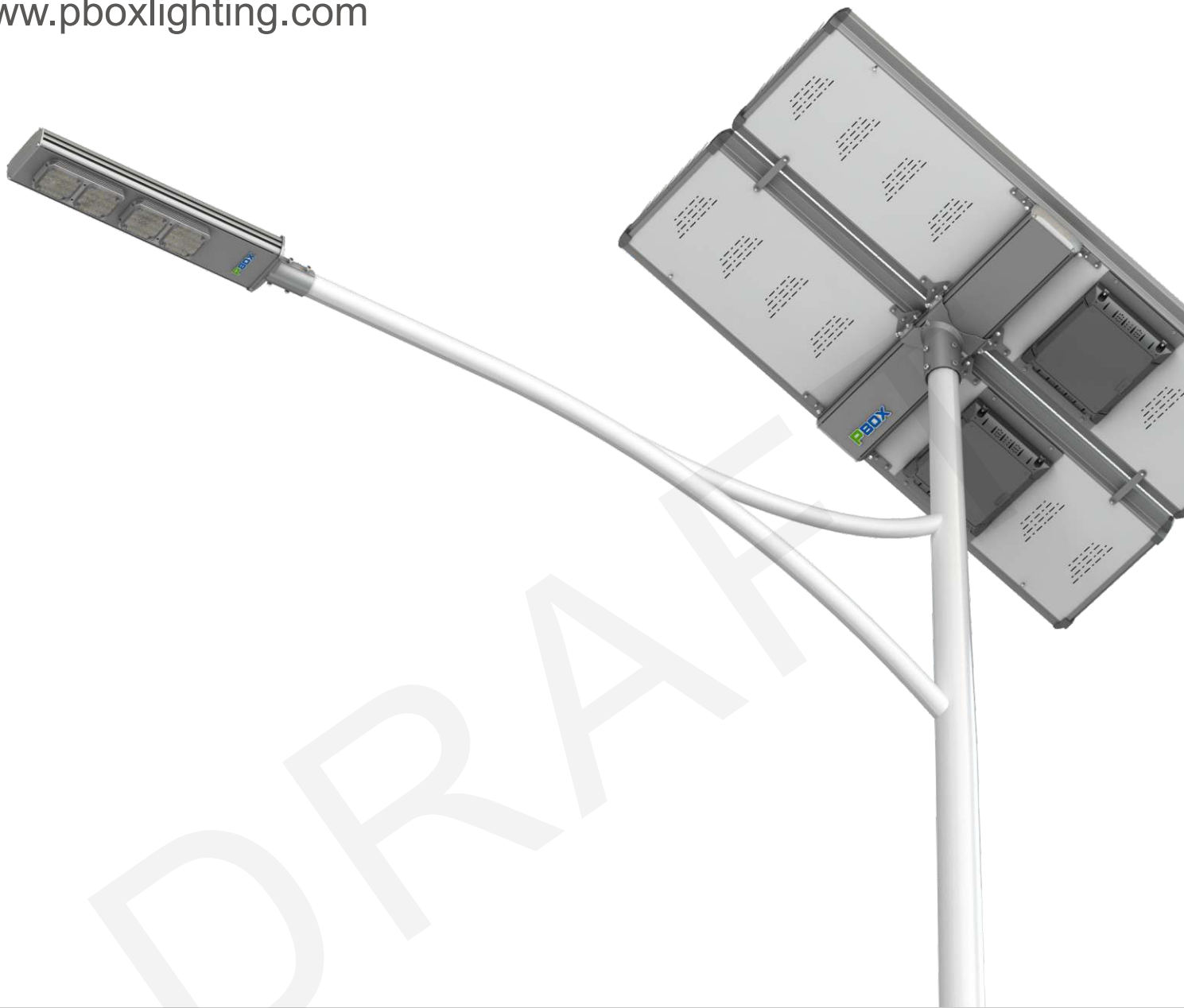


PBOX®

www.pboxlighting.com



X5 DUAL

Solar Street Light



Monocrystalline
Solar Module



Efficient
Controller



Lithium-ion
Batteries



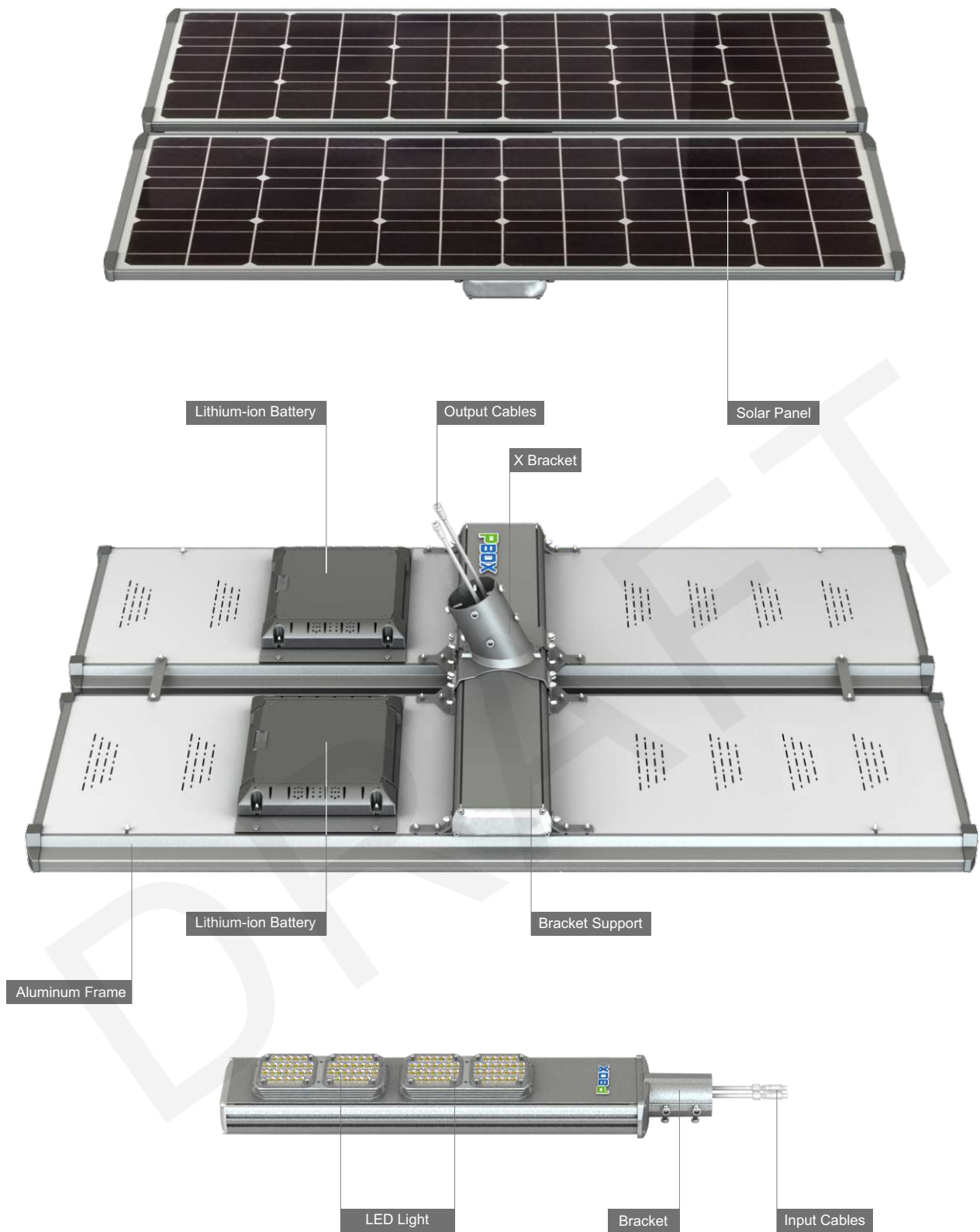
CREE LED



Anti-Typhoon



IP65



Simple installation, extremely practical

The X5 Dual 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.

X5 Dual 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.



High Efficient Monocrystalline Module

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



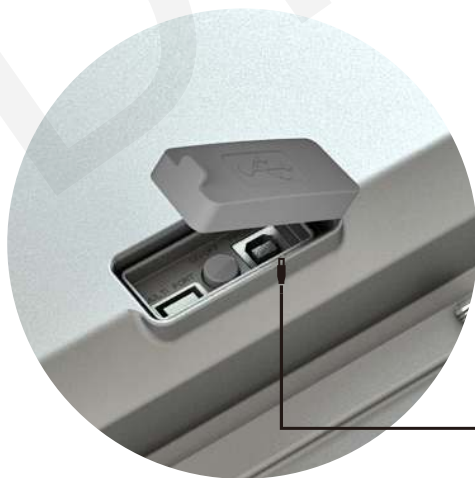
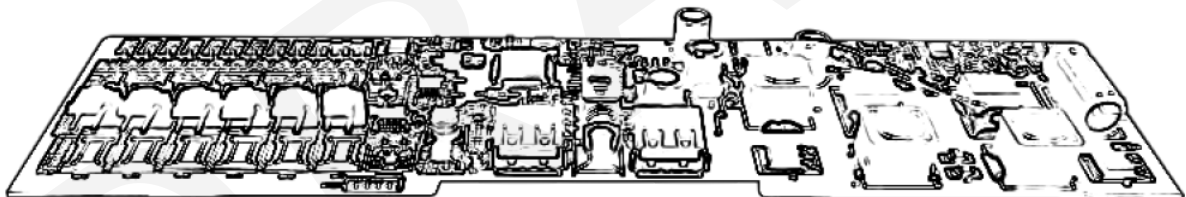
IP65 Waterproof

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.



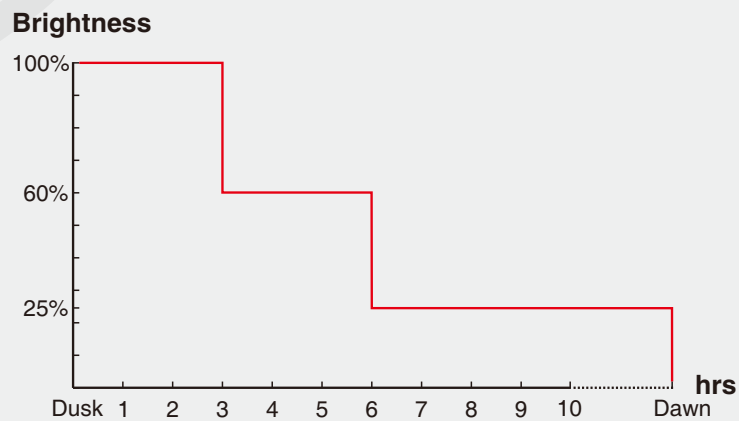
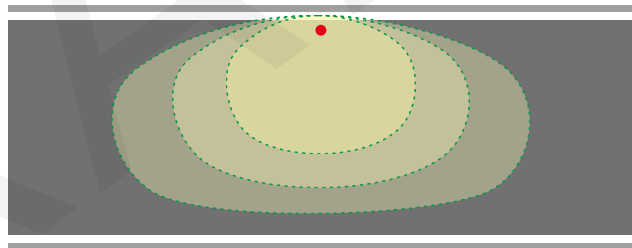
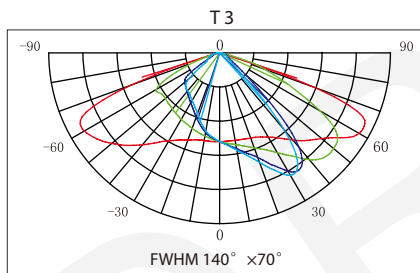
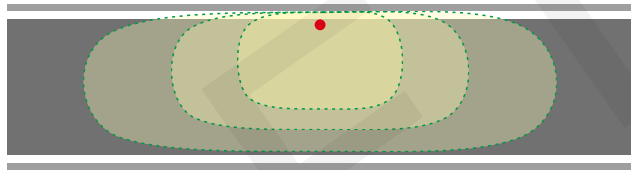
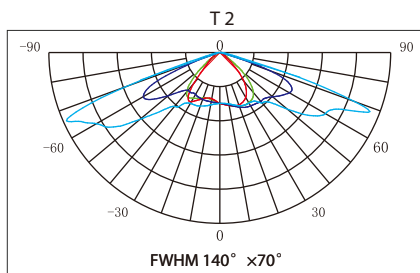
High performance charging controller, provides full protection for the system

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 **180lm/W** (@25°C), 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.

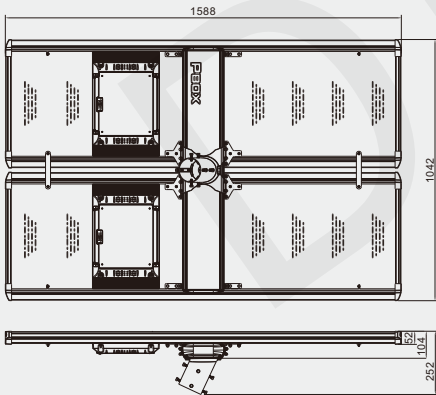


Dust to Dawn dimming profile and customer-specific available.

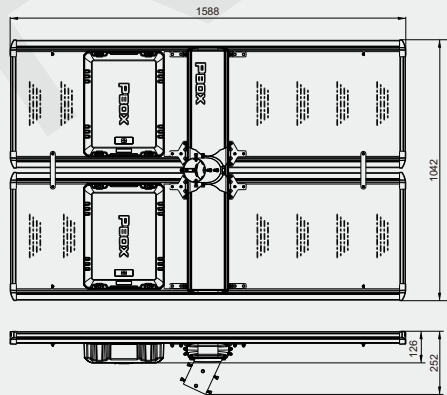
Solar Engine Technical Data

Model No.	X5FR-40-D	X5FT-40-D	X5GU-50-D	X5GW-50-D
Physical Parameters				
Power of PV Module (W)	130W+130W	130W+130W	180W+180W	180W+180W
Liuthium Battery Capacity (Wh)	656Wh+656Wh	820Wh+820Wh	983Wh+983Wh	1229Wh+1229Wh
Net Weight of Product (kg)	52	56	60	63
Dimension of Carton (mm)	1588×1042×104	1588×1042×126	1503×1358×110	1503×1358×110
Controller Type	Touch-tone controller	Touch-tone controller	Touch-tone controller	Touch-tone controller
Packing Parameters				
Main Package	Carton Size (mm)	1660×140×1120	1660×165×1120	1575×150×1435
	Gross Weight (kg)	58	62	66
Extra Package (for Bracket)	Carton Size (mm)	240×170×260	240X170X260	240X170X260
	Gross Weight (kg)	2.6	2.6	2.6
Environment Requirements				
Charge Temperature	0°C~60°C	0°C~60°C	0°C~60°C	0°C~60°C
Discharge Temperature	-20°C~60°C	-20°C~60°C	-20°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
Mounting Recommendations				
EPA (effective projected area) (ft ²)	8.98	8.98	11.07	11.07
APA (acutal projected area) (ft ²)	7.48	7.48	9.22	9.22
Wind Load Rate (mph)	130	130	130	130
Top of Pole or Tenon OD (mm)	80~85	80~85	80~85	80~85

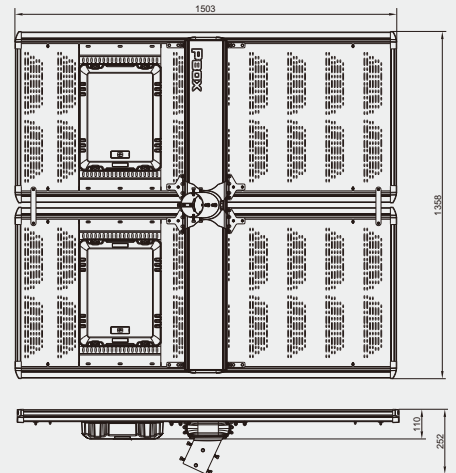
Physical Dimensions (mm)



X5FR-40-D



X5FT-40-D

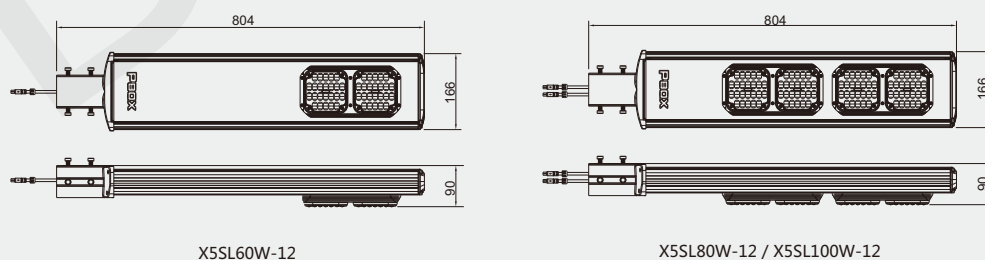


X5GU-50-D / X5GW-50-D

LED Street Light Technical Data

Model No.	X5SL60W-12	X5SL80W-12	X5SL100W-12
Physical Parameters			
Qty. of LED Chips (pcs)	2×24	4×18	4×24
Net Weight of Product (kg)	5	5	5.5
Dimension of Product (mm)	804×166×90	804×166×90	804×166×90
Light Parameters			
Light Output (W)	60	80	100
Typical Luminous Flux (lm)	9000	12000	15000
Color Temperature (K)	5000	5000	5000
Packing Parameters			
Dimension of Carton (mm)	865×260×240	865×260×240	865×260×240
Gross Weight of Product (kg)	13	14	14.5
Packing (pcs)	2	2	2
Mounting Recommendations			
EPA (effective projected area) (ft ²)	0.65	0.65	0.65
APA (actual projected area) (ft ²)	0.54	0.54	0.54
Wind Load Rate (mph)	130	130	130
Arm or Tenon OD (mm)	60	60	60
Adapter Solar Panel Power System Model	X5EQ-30-D	X5FR-40-D / X5FT-40-D	X5GU-50-D / X5GW-50-D

Physical Dimensions (mm)



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