

Inbrit[®]



PLATE

ALL IN ONE SOLAR STREET LIGHT



Available in black/gray/white

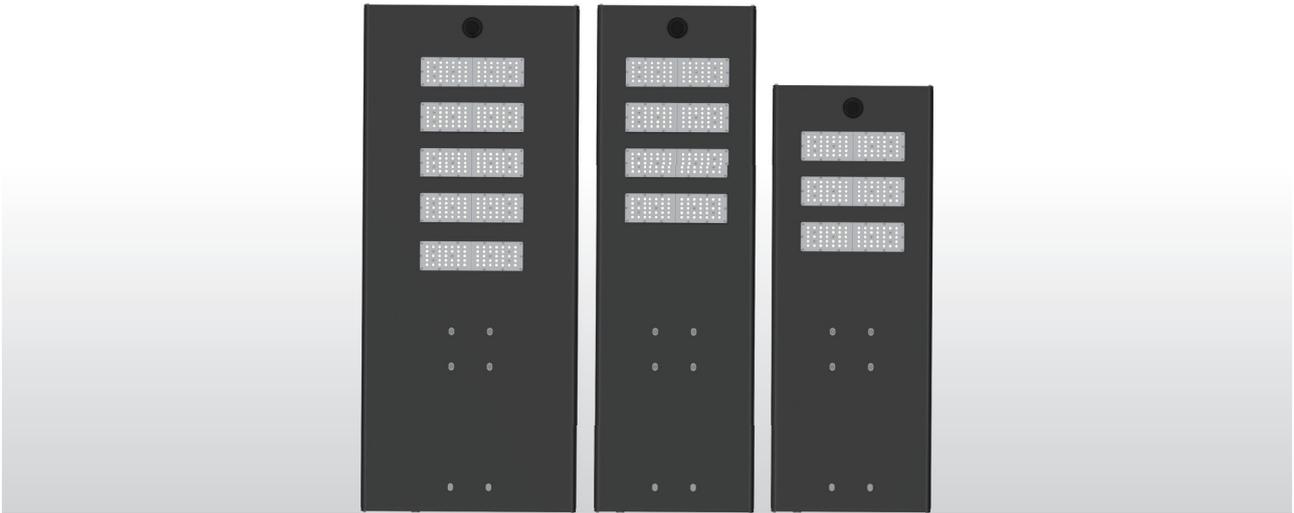
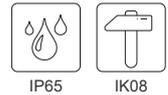


PLATE ≤30W/60W

ALL IN ONE SOLAR STREET LIGHT



No additional wiring is required, cost saving. Multi-point fixation, stable and durable.
 Direct light-emitting design, high light transmittance protective cover, high light transmittance.
 Human body sensor+light control output.
 High-quality chips, high light efficiency, low light attenuation, and high energy-saving efficiency.
 Designed with a high thermal conductivity aluminum substrate, the entire lamp has good heat dissipation and longer lifespan.



High Brightness

High efficiency energy conversion, LED has high luminous efficiency. LED has long life, which can effectively reduce maintenance cost and replacement cycle. High safety, LED will not produce high temperature, explosion and other safety hazards, as well as waterproof, dustproof and other features, can be used in harsh environments.



High Efficiency Solar Cells

Solar-powered, no need for external power supply, energy-saving and environmentally friendly



Optional Sensors

Microwave sensor for different road scenes, smarter and more power-saving.



MAIN BODY OF A STRUCTURE

The lamp body is made of die cast aluminum

OPTICAL ELEMENT

The light source adopts bat wing lens optical accessories

THIN LAMP BODY

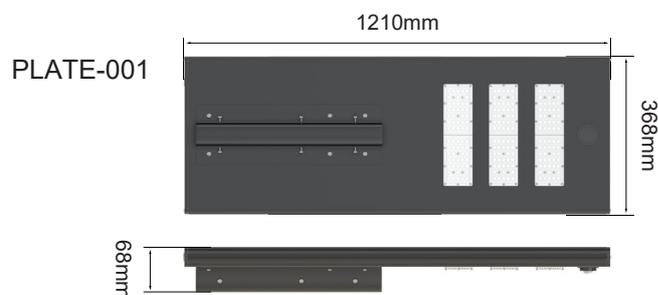
One piece fixture design with optional sensor for better overall performance

MULTIPLE MOUNTING OPTIONS

Different mounting methods are suitable for more complex scenes, providing more convenient installation.

Model No.	PLATE-001	PLATE-002	PLATE-003
Rated Power	≤30W	≤30W	≤60W
System Voltage	DC12.8V		
LiFePO4 Battery	24AH	40AH	50AH
Solar Panel	18V80W	18V100W	18V145W
Light Source	COB or LED Module		
Light Distribution	Bat-Wing light distribution (150°×75°)		
Light Efficiency	110-150LM/W		
Color Temperature	3000K-6000K		
CRI	≥Ra70		
IP Rating	IP65		
Working Temperature	-10°C -+60°C		
LED Lifespan	50000H-100000H		
Controller	6A30W	6A30W	10A60W
Lamp Pipe Diameter	Straight Sleeve Φ60MM/Tapered sleeve Φ75MM/clamp Φ90MM		
Lamp Dimension	1210×368×68MM	1352×387×68MM	1480×550×68MM
Suggested Mount Height	4-6M	6-8M	8M
Motion Sensor	Yes		
Lamp Weight	12.3KG	15.1KG	18.7KG
Package Dimension (Sleeve not included)	1295×455×125MM	1425×455×125MM	1560×625×125MM
Warranty	3 Years		

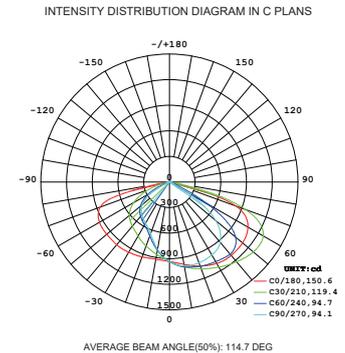
LAMP DIMENSION



LIGHT DISTRIBUTION CURVE

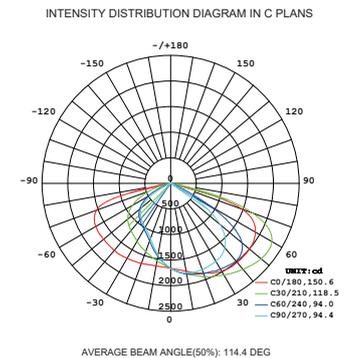
STREETLIGHT PHOTOMETRIC TEST REPORT (20W)

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 169.00lm/W
MODEL	PB-20W	Imax (cd)	1286	η street_up (%)	0.3	
NOMINAL POWER (W)	20	LOR (%)	100.0	η street_down (%)	60.8	
RATED VOLTAGE (V)	30	TOTAL FLUX (lm)	3380	η house_up (%)	0.3	
NOMINAL FLUX (lm)	1689.98	MAXIMUM @(C,Y)	30, 55.0	η house_down (%)	38.6	
LAMPS INSIDE	2	η up (%)	0.6	76 FLASHAREA (m ²)	0.00100	
TEST VOLTAGE (V)	28.2	η down (%)	99.4	SLI	16.040	



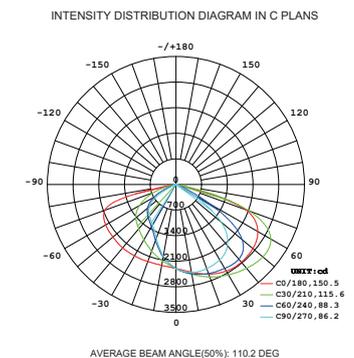
STREETLIGHT PHOTOMETRIC TEST REPORT (40W)

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 150.77lm/W
MODEL	PB-40W	Imax (cd)	2312	η street_up (%)	0.3	
NOMINAL POWER (W)	40	LOR (%)	100.0	η street_down (%)	60.8	
RATED VOLTAGE (V)	30	TOTAL FLUX (lm)	6031	η house_up (%)	0.3	
NOMINAL FLUX (lm)	3015.32	MAXIMUM @(C,Y)	30, 55.0	η house_down (%)	38.6	
LAMPS INSIDE	2	η up (%)	0.6	76 FLASHAREA (m ²)	0.00100	
TEST VOLTAGE (V)	29.4	η down (%)	99.4	SLI	16.854	



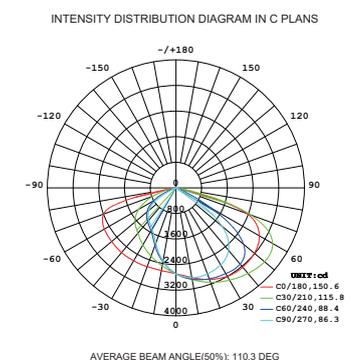
STREETLIGHT PHOTOMETRIC TEST REPORT (50W)

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 160.90lm/W
MODEL	PB-50W	Imax (cd)	3089	η street_up (%)	0.3	
NOMINAL POWER (W)	50	LOR (%)	100.0	η street_down (%)	60.1	
RATED VOLTAGE (V)	30	TOTAL FLUX (lm)	8045	η house_up (%)	0.3	
NOMINAL FLUX (lm)	2011.19	MAXIMUM @(C,Y)	30, 52.0	η house_down (%)	39.3	
LAMPS INSIDE	4	η up (%)	0.6	76 FLASHAREA (m ²)	0.00100	
TEST VOLTAGE (V)	28.3	η down (%)	99.4	SLI	17.307	



STREETLIGHT PHOTOMETRIC TEST REPORT (60W)

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 156.66lm/W
MODEL	PB-60W	Imax (cd)	3599	η street_up (%)	0.3	
NOMINAL POWER (W)	60	LOR (%)	100.0	η street_down (%)	60.1	
RATED VOLTAGE (V)	30	TOTAL FLUX (lm)	9400	η house_up (%)	0.3	
NOMINAL FLUX (lm)	2349.96	MAXIMUM @(C,Y)	30, 52.0	η house_down (%)	39.3	
LAMPS INSIDE	4	η up (%)	0.6	76 FLASHAREA (m ²)	0.00100	
TEST VOLTAGE (V)	28.8	η down (%)	99.4	SLI	17.567	



STRUCTURE PRESENTATION

Mono Solar Panel

High conversion efficiency, stable material performance, slow decay of efficiency in long-term use, good high-temperature performance, sturdy structure.

Optional Microwave Sensor

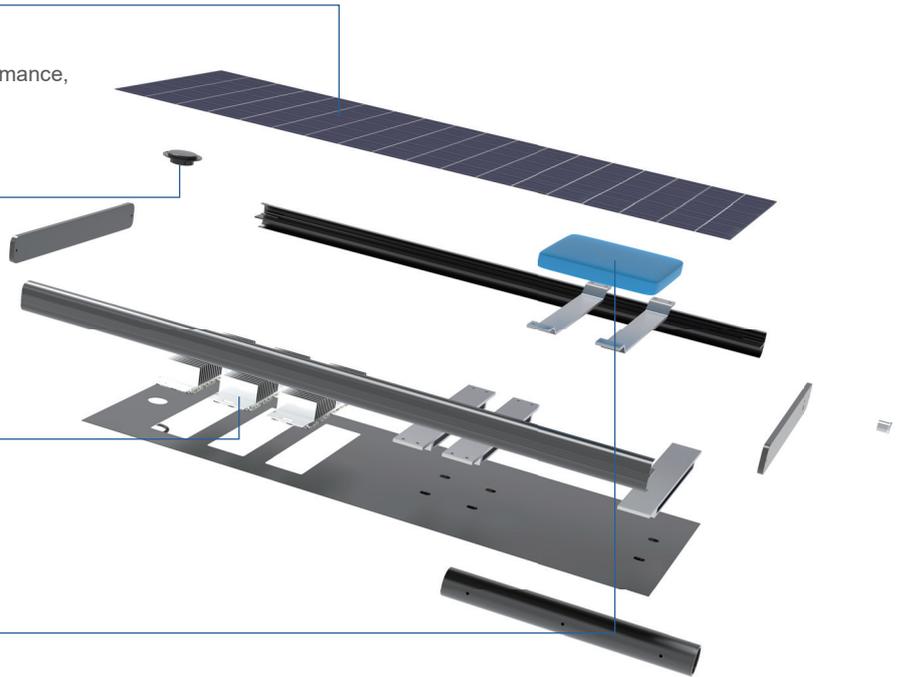
Microwave sensors are very sensitive to moving objects, have a wide detection range, strong anti-interference capability, low wear and tear, long life and low maintenance costs.

High-Efficiency LED Module

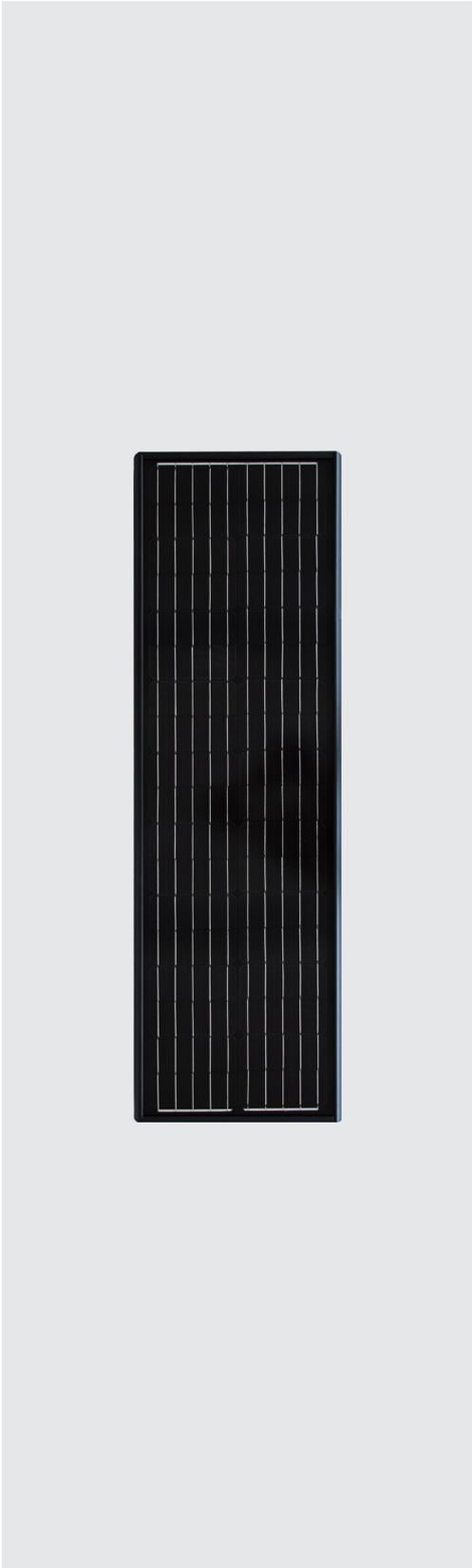
Available in 3-6 modules, it generates less heat during operation, which effectively extends the life of the module.

Safe Lithium Battery

Large battery compartment with customizable capacity options for extended lighting hours. The battery is also removable, making it convenient for maintenance and future upgrades.



MONOCRYSTALLINE SOLAR MODULE



High-Quality Guarantee

EL TEST twice 100% for semi-finished and finished products to eliminate defectives.



Efficiency Under Dim

Using advanced glass and textures. Superior low irradiance performance.



Afford Any Bad Weather

Certificated 2400-Pascal wind and snow load.

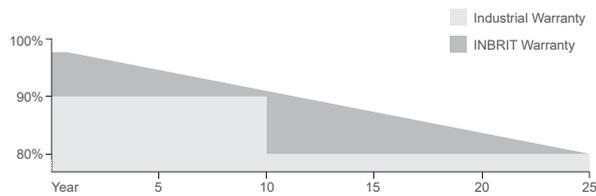


Higher Efficiency

High efficiency of conversion by using the new manufacturing technique and A-class cell.

INBRIT photovoltaic(PV) modules are assembled by high-performance A-class cells and encapsulated by a durable back sheet, are capable of converting energy from incident lights on the diffuse light, as well as reflected and scattered light on rear sides, which make them better reliable, superior low irradiance performance, and excellent generation performance.

Linear graph of performance warranty



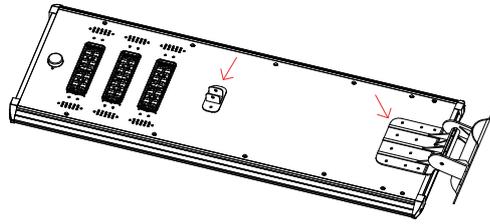
Comprehensive certificates

- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems



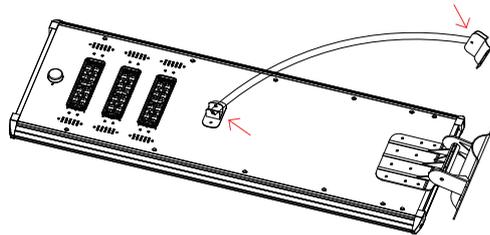
LAMP INSTALLATION

①



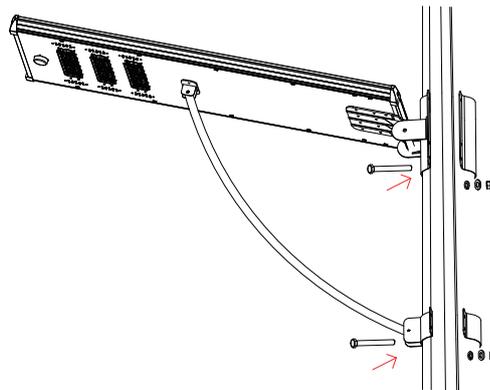
After removing the lamp, install the sleeve onto the lamp.

②



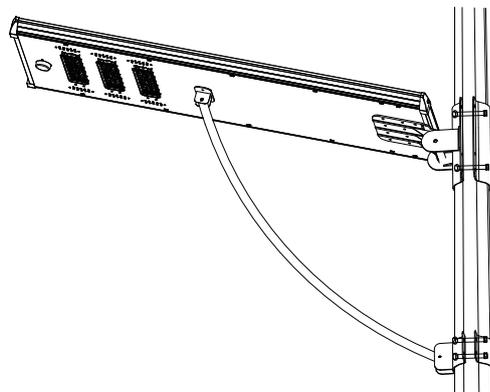
After attaching the clamp plates to the support rod, install the support rod onto the lamp bracket and tighten the screws.

③



Install the lamp onto the pole and attach the upper and lower clamps.

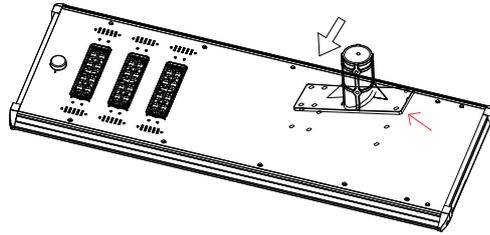
④



After adjusting the lamp to the correct angle, tighten all screws, raise the lamp pole, and complete the installation.

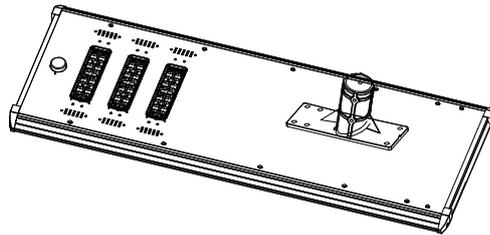
LAMP INSTALLATION

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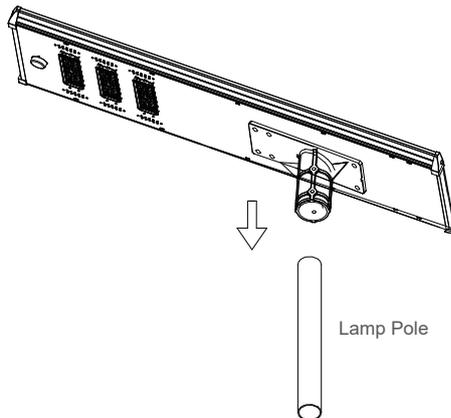
After removing the lamp, install the sleeve onto the lamp.

②



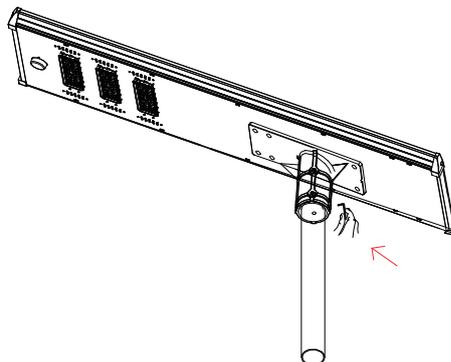
Tighten the screws after the sleeve is installed.

③



Align the lamp with the pole, insert it, and adjust the angle of the lamp.

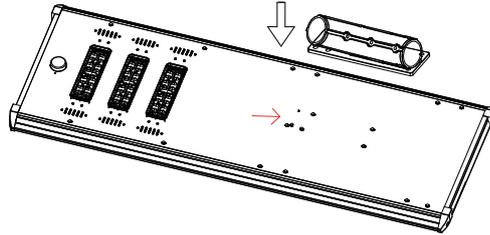
④



After adjusting the lamp to the correct angle, tighten all screws, raise the lamp pole, and complete the installation.

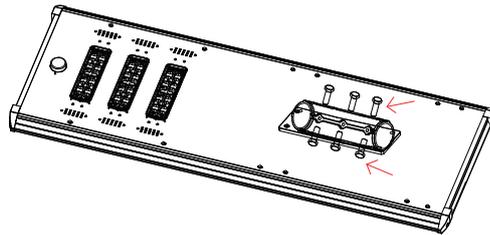
LAMP INSTALLATION

①



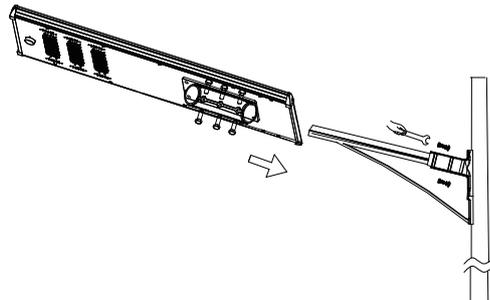
After removing the lamp, install the sleeve onto the lamp.

②



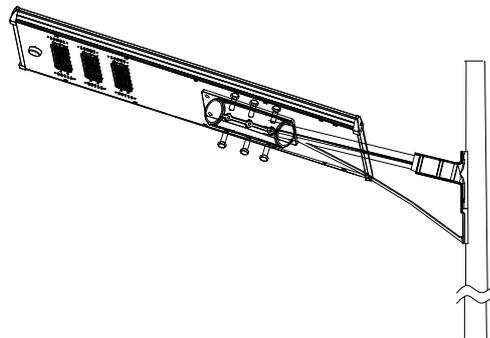
After installing the sleeve, insert the sleeve screws, but do not tighten them yet.

③



First, install the support arm and tighten the screws. Then, insert the lamp onto the support arm and adjust the lamp angle.

④



After adjusting the lamp to the correct angle, tighten all screws, raise the lamp pole, and complete the installation.



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One-Stop LED Outdoor Lighting Manufacturer