Integrated Solar LED Street Lights

ENELTEC®
brighten your ideas

Integrated Solar LED Street Lights
with “ALL-IN-ONE” technology, which integrates a highly efficient solar panel, super bright LED, compact LiFePO4 lithium battery, motion sensor and a smart power management system into a cabinet to achieve features such as easy to install, long lifespan and environmental friendly.

Features and Benefits

ALL-IN-ONE solar light is the most convenient design for transportation, installation and maintenance.

Fully recyclable LiFePO4 batteries are half wight and size of lead acid and offering as much as 10 times the cycle life.

Bracket and security bolts protect the light from steal and violence damage.

LED

BRIDGELUX latest and highest performance LED to achieve 110lm/W @85℃.

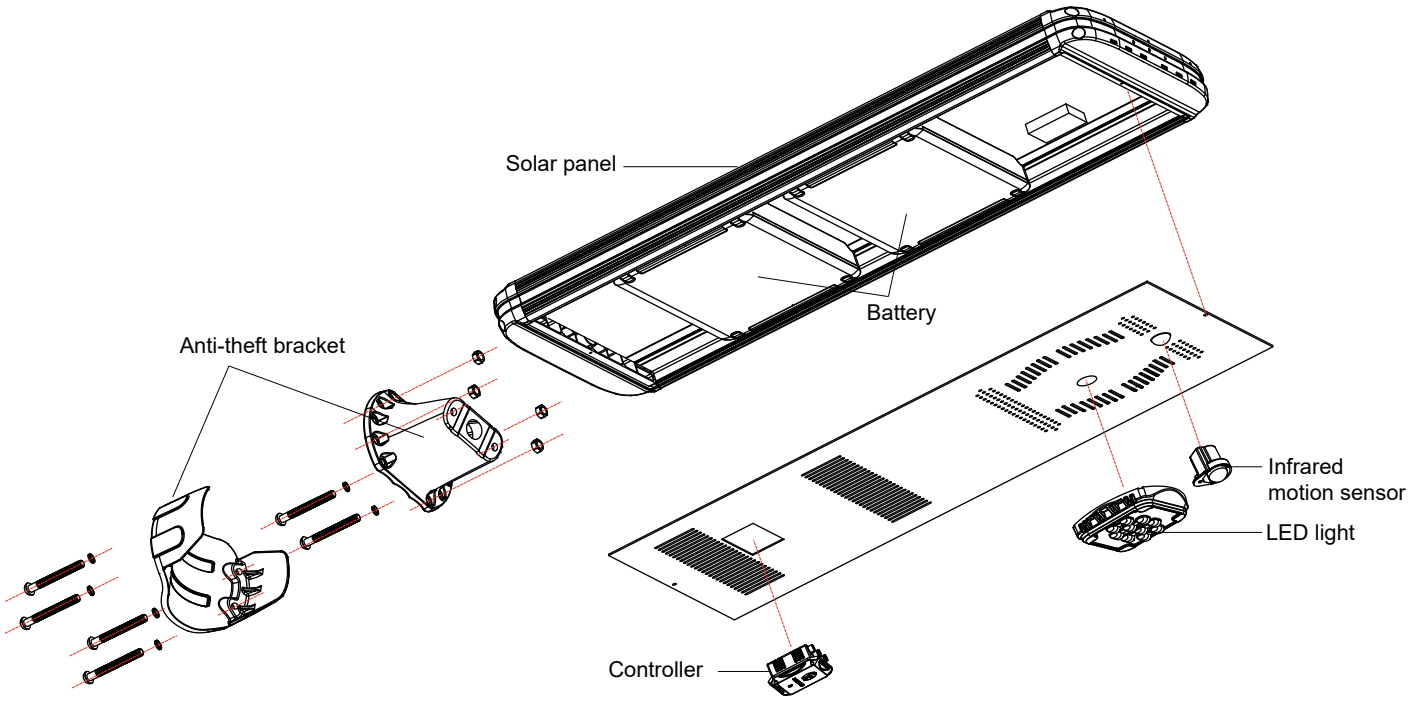
PIR

A built-in PIR sensor regulates the light output between full brightness and DIM mode depending upon the detection of movement for saving energy.

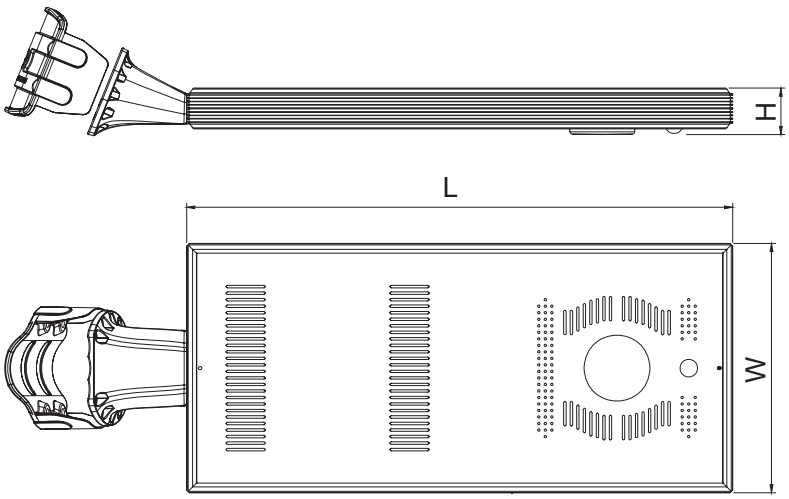
IP65

The manufacturer has certificated ISO9000/ISO14000 and products passed CE, ROHS, IP65, loading test, etc.

Structure

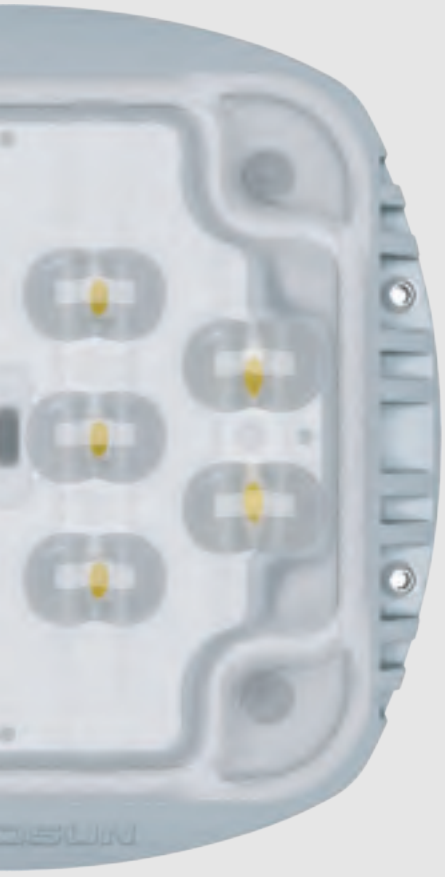


Dimension



Model No.	Dimension (mm)		
	L	W	H
ENSL-S6W-05	380	220	50
ENSL-S8W-05	350	310	45
ENSL-S12W-05	350	310	45
ENSL-S15W-05	420	350	55
ENSL-S20W-05	650	325	45
ENSL-S25W-05	650	325	45
ENSL-S30W-05	960	340	45
ENSL-S40W-05	960	340	45
ENSL-S50W-05	1200	340	45
ENSL-S60W-05	1200	340	45
ENSL-S70W-05	1080	453	45
ENSL-S80W-05	1080	453	45
ENSL-S90W-05	1210	460	45
ENSL-S100W-05	1210	460	45
ENSL-S110W-05	1570	460	45
ENSL-S120W-05	1570	460	45

LED



BRIDGELUX LED

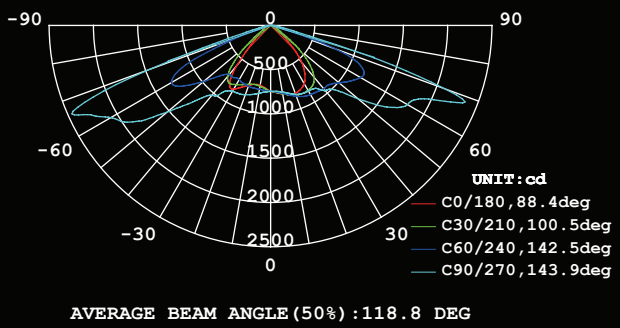
Adopted BRIDGELUX LED with average light illumination of 110lm @350mA, 85℃.

Bat wing light distribution

Leadsun new design light distribution lens widely improve illumination effect.

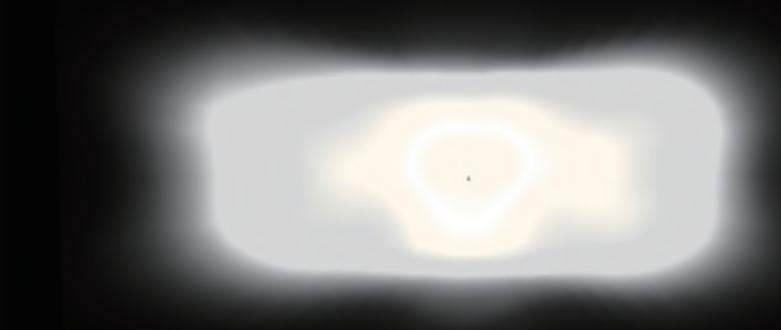
Compared with the last generation product, illumination area enlarge **40%** more, and illumination uniformity does improve up to **200%**.

Bat wing light distribution curve



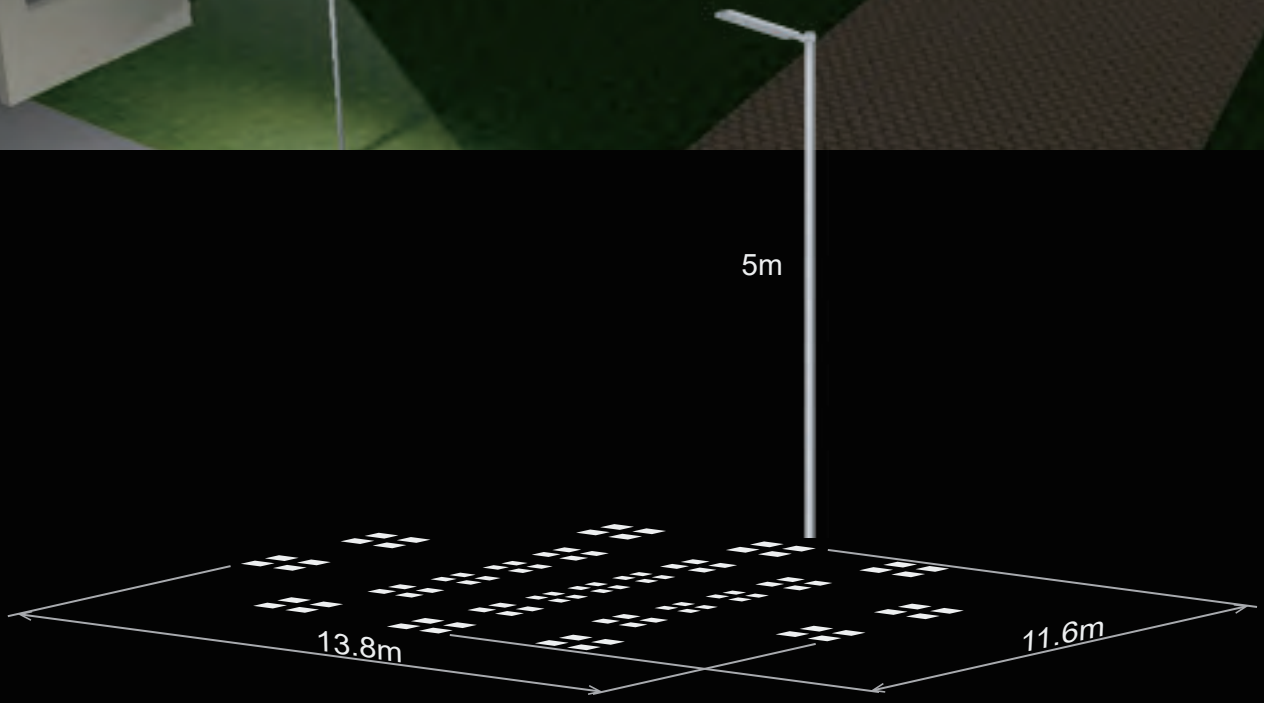
AVERAGE BEAM ANGLE(50%):118.8 DEG

Light intensity diagram



Motion detection

Integrated Solar LED Street Lights comes complete with built-in motion detection system that automatically regular the light soure from full bright (100%) to the energy saving output (30%) to increase battery autonomy.



Infrared motion sensor detection area

APP Control

Control the light

Turn ON or turn OFF the light and change light intensity in the range of 10% to 100%.

Track historical data

Review monthly report to track every day's power generation, inner temperature and detail records for charging and discharge.

Set custom working mode

Users can set their own working mode according to the local solar irradiance or peak sun hours and other lighting requirement.

Real-time supervision

Monitor the status of main components and real time charging / discharging data.

Assembling and Installation

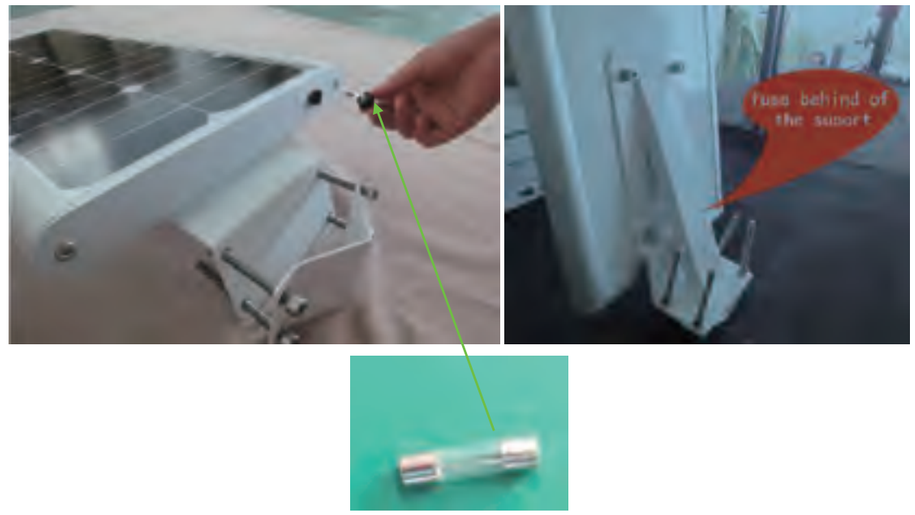
Step 1: Open the box and prepare all the parts you need.

Step 2: Unscrewing the screw of the light fixture/box for installing bracket.

Step 3: Screw and hold one end of the mounting support tube to the light fixture/box.

Step 4: Connect the pole mount bracket with the support tube.

Step 5: Insert the fuse into the light fixture/box. Unfold the knob of fuse (see below) and take out the insulating film of the fuse socket. Make sure the fuse is working, then tighten.



Step 6: Mount the light fixture/box on the pole.

Data

Model No.	ENSL -S6W-05	ENSL-S8W-05	ENSL-S12W-05	ENSL-S15W-05	ENSL-S20W-05	ENSL-S25W-05	ENSL-S30W-05	ENSL-S40W-05	ENSL-S50W-05	ENSL-S60W-05	ENSL-S70W-05	ENSL-S80W-05	ENSL-S90W-05	ENSL-S100W-05	ENSL-S110W-05	ENSL-S120W-05
LED Power	6W	8W	12W	15W	20W	25W	30W	40W	50W	60W	70W	80W	90W	100W	110W	120W
Solar Module Type	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon	Solarword Monocrystal linesilicon
Solar Module (W)	10W 18V	15W 18V	18W 18V	25W 18V	30W 18V	30W 18V	50W 18V	50W 18V	70W 18V	70W 18V	90W 18V	90W 18V	100W 18V	100W 18V	130W 18V	130W 18V
Lumen (lm)	600-700	900-950	1200-1400	1600-1800	2400-2600	3000-3600	3600-3900	4800-5000	6000-6500	7200-7800	8400-9000	9600-10000	11000-12000	12000-13000	13000-14000	14000-15000
Lithium Battery	4AH 12V	6AH 12V	7AH 12V	10AH 12V	13AH 12V	15AH 12V	20AH 12V	22AH 12V	30AH 12V	32AH 12V	40AH 12V	45AH 12V	50AH 12V	54AH 12V	65AH 12V	70AH 12V
Working Time In Raining days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days	3-4 Days
Constant Worktime at Full Power	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours	>12 Hours
Worktime at Energy-saving Mode (20-30%)	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours	>48 Hours
Charge Time	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	6-7 Hours	8 Hours	8 Hours	7 Hours	7 Hours
Switch Lights Sense Threshold	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX	10LUX
Working Temperature	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃	-30℃~ 60℃
Installation Height	3M	3-4M	3-4M	4-5M	4-5M	4.5-5M	4.5-5.5M	5-6M	6-7M	6-7	7-9M	7-9M	8-10M	8-10M	10-11M	10-12M
Pole Distance	8-10M	10-12M	12-14M	14-17M	16-20M	17-21M	18-22M	17-25M	25-27M	27-30M	27-30M	30-35M	35-36M	35-36M	36-38M	36-38M
Beam Angle	120°	120°	120°	120°	120°	120°	120°	120°	120°	120°	120°	120°	120°	120°	120°	120°
Color	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K	3000K/ 4000K/ 5000K/ 6000K
IP Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
PIR Sensor	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Photocell Controller	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Timer Controller	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
Packing Dimension (cm)	1PC 43.5*26.5*13	1PC 46*35*15	1PC 46*35*15 0	1PC 52*40*15	1PC 76*40*15	1PC 76*40*15	1PC 106*40*20	1PC 106*40*20	1PC 134.5*40*20	1PC 134.5*40*20	1PC 119.5*50*19	1PC 119.5*50*19	1PC 134.5*50*20	1PC 134.5*50*20	1PC 165*53*12/ 40.5*23.5*38	1PC 165*53*12/ 40.5*23.5*38
GW (Kg)	1PC 3.0	1PC 4.0	1PC 4.0	1PC 6.0	1PC 8.0	1PC 8.2	1PC 13.0	1PC 13.0	1PC 18.0	1PC 18.0	1PC 21.0	1PC 21.0	1PC 23.0	1PC 23.0	1PC 29.5	1PC 30.5