



Merits, Technical Data

Brand Name: SUN POINT

SUN POINT is a unique brand of DACEN Ltd, a designer of unique solar powered all-in-one LED street lights.

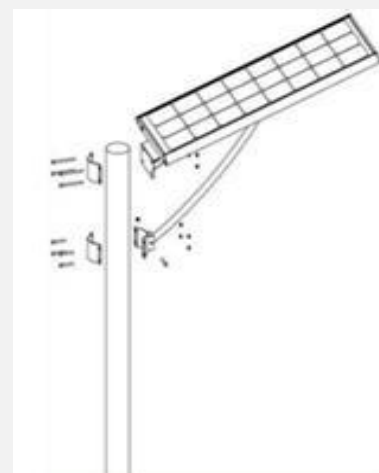
General Merits

In accordance to EN13201 requirements standard, the SUN POINT brand is best for illumination classes S5 and S6, which is excellent for lighting cyclists and pedestrians on footpaths, cycle paths, residential roads, pedestrian streets, parking areas, modern urban space as well as protected monumental structures, etc. The unique operating system guarantees flawless function for several nights even during the worst weather.



Why All-In-One Solar Powered LED Street Light

Unlike **traditional solar street lights** that feature panels, batteries, charge controller, fixtures and accessories that are wired together, the new generation **All-In-One Solar Street Lights** integrate the solar panel, LED source, PIR motion sensor, die casting cap, and angle shifter into the pole itself.



Advantage of All-In-One Solar LED Street Light

Major reason for its more popularity is due to its compact design. The lithium battery and solar controller are built inside of light fixture, and solar panel is attached on the top of fixture. It is very easy to be installed at any places as long as there is sunshine path. It is a great option to use all-in-one solar street light to illuminate places where access to utility electricity is limited. Hence, no or less civil engineering works are required since digging of ditches is completely eliminated and of course no running of underground cables is necessary. Normally there is inbuilt motion sensor, which helps to save power consumption. All-in-one solar street light is very suitable in countries or regions of the World where there is plenty of sunshine all over the year, such as Africa, South America, part of Asian continent and Middle East countries.



Lesser Cost Of Installation: It is much less expensive to install an all-in-one solar powered street light than a traditional street light (split unit solar street light). Compared to the price of all-in-one solar street lights, split type solar street lights are 40 to 60 percent more expensive.



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Compact Design: The Sun Point design and technology application is driven by our desire to eliminate the need for bulky external batteries and solar panels to achieve All-in-One Solar Powered Street Light.

Minimize Damage and Theft: By locating directly on the light fixture and placing the battery within, the risk of damage, theft or tempering is greatly reduced. There are no wires in the street pole, which means that the wire itself cannot be stolen and sold for scrap.

Infrared (PIR) Motion sensor: Infrared motion sensor detects heat source movement. Our all-in-one solar street lights incorporate infrared sensors, which have a 120-degree working angle and can detect a squat cone space under the lights, thereby saving battery energy.

Ruggedized Technology: Requires less maintenance and reduced parts replacement due to initially incorporating higher quality components.

Insect Swarms: The solar powered street light uses LED lighting which does not produce infrared light and therefore will not attract insects.

Improved Safety: The Solar powered street light does not require connection to electrical grid. It therefore makes it safer and easier to install. In the event of a power outage, the light remains on. This reduces the chance of accidents and the constant light deters theft and vandalism.

Flexibility in Use:

The solar powered street light can be used in any location. Since no electrical grid is required, it can be installed on buildings, in parking lots, in remote locations simply by hanging it on a pole.

Faster Installation: All-in-one solar street lights are pretty easy to install. Its solar panel, LED lamp, battery, smart sensor, and controller are stored conveniently in one box. We can set them up on new or old poles, and even on walls. This alternative is cheaper and takes less time to install.

Ease of Maintenance: All-in-one solar street lights usually just require customers to send the whole integrated solar lamp to the factory for maintenance. This makes it easier and more convenient for users than its counterpart (the split unit solar street light).

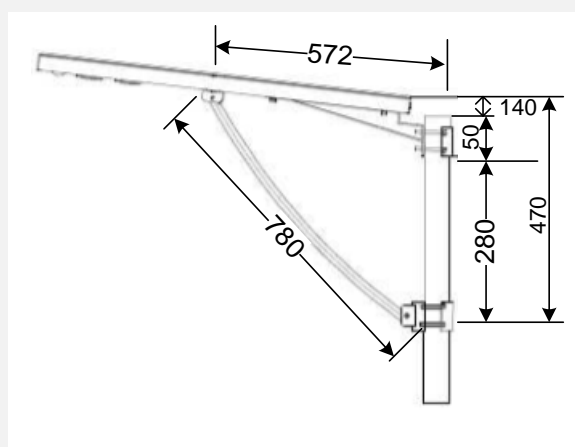
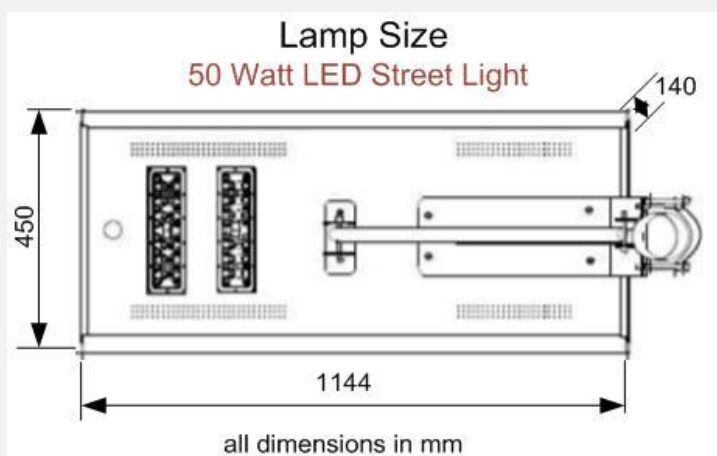
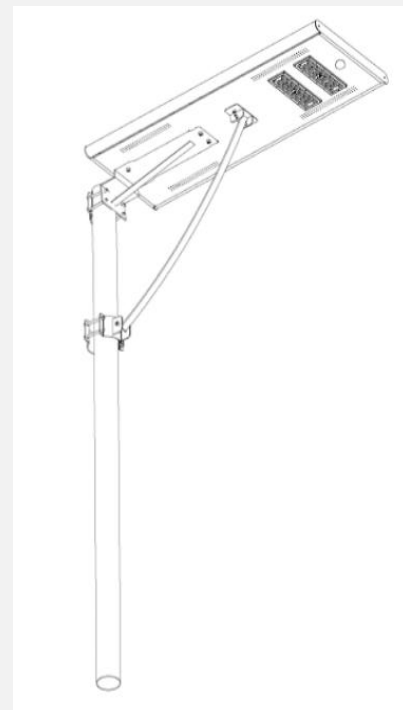




Merits, Technical Data

Technical Data

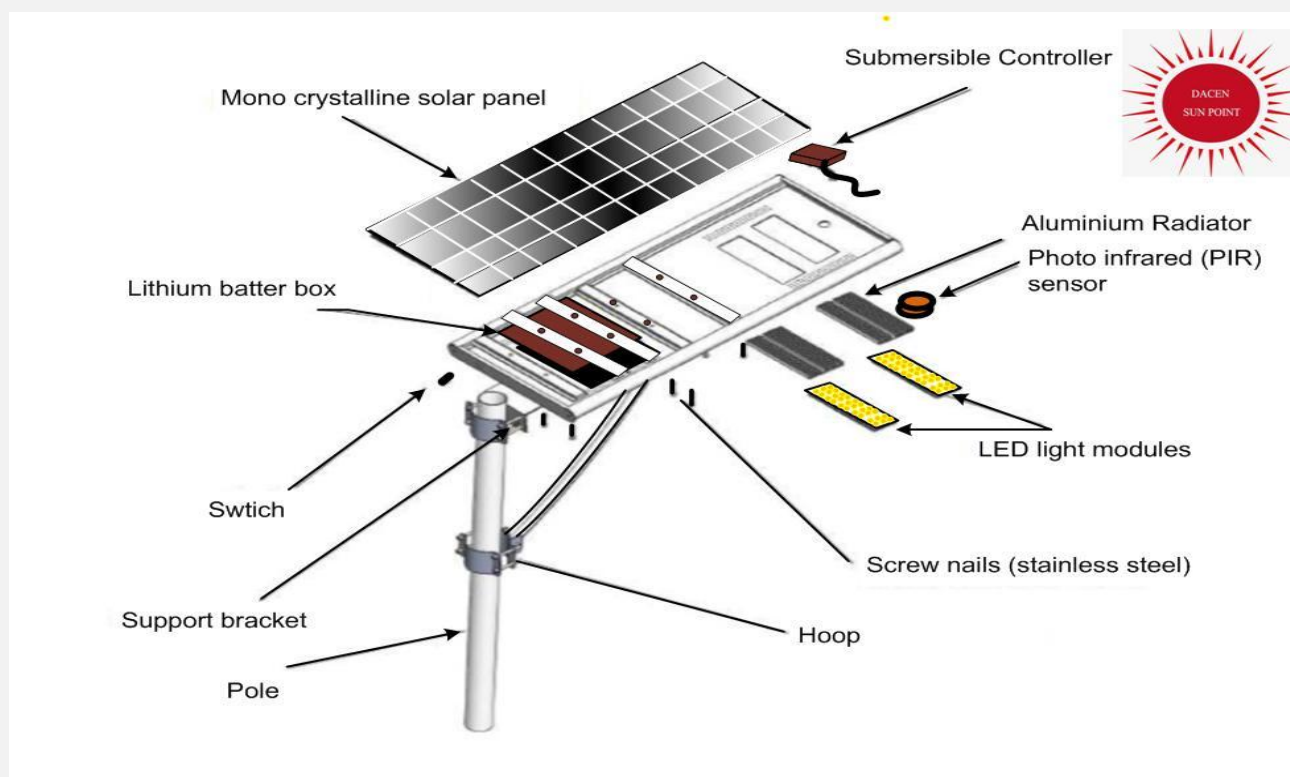
All-In-One Solar Street light (50W)		Model: PVSS5080
Solar panel	Max power	18V 80W
	Module	mono crystalline with high efficiency
	Life time	25 years
Battery	Type	Lithium battery 36Ah
	Life time	5-6 years
	Working time	3-5 raining days
LED Lamp	Max power	50W (with motion sensor)
	Life time	More than 50000 hours
	LED Chip	Bridgelux with high brightness from United States
	Beam Angle	120°
Charge time	By Sun	6 - 7 hours
Discharge time	Saving power mode	more than 30 hours
Working temperature	Range (°C)	-20°C ~ +60°C
Colour temperature	Range (k)	6500k ~ 7300k
Mounting height	Range (m)	7 - 8m
Space between light	Range (m)	18 - 20m
Material	Aluminium alloy	
Certificate	CE / ROHS / IP65	
Packing design	Product size (l*w*h)	1144*450*140 mm/ctns



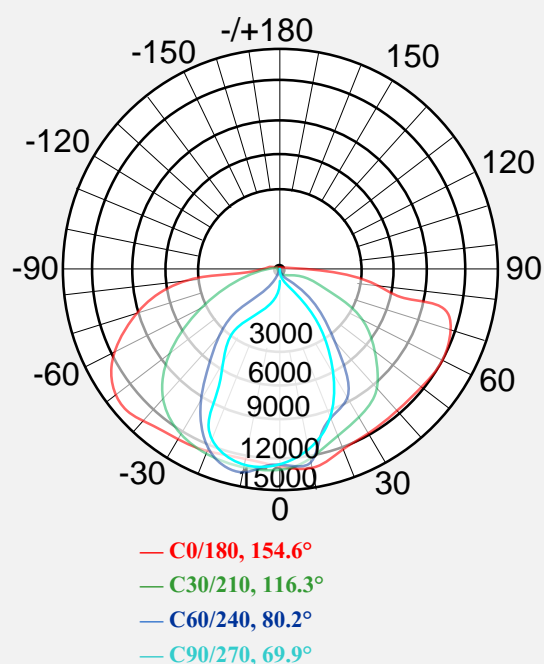


Merits, Technical Data

Part naming: All-in-one Street



Intensity Distribution Diagram



Features:

- All-in-one solar module
- Plug and play wiring
- Lithium battery technology – 4 times more discharge capacity and 3 times more cycle life than Lead acid battery
- Tamper and theft proof design
- Automated LED output options for greater battery energy saving
- User replaceable part
- PIR motion sensor
- Light weight
- Internal components offer IP65 weather protection
- External components built with marine grade aluminium and stainless steel fixings
- Survives in harshest weather condition

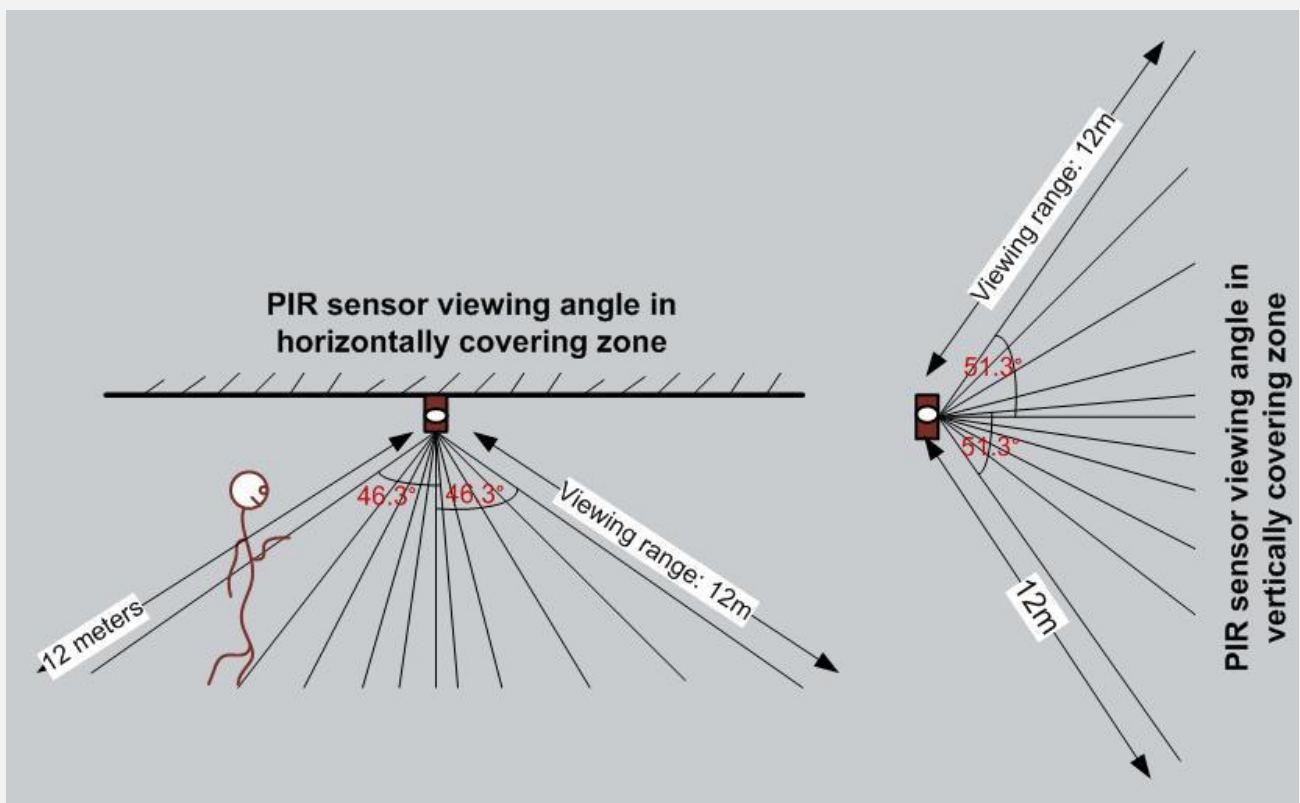


Merits, Technical Data

PIR Sensor Demo



Sun Point all-in-one solar street light has an inbuilt PIR motion sensing security feature that automatically regulates the LED light output from full brightness to a lower level depending upon the detection of movement around the light. This characteristic of gradual drop of light intensity preserves battery power and also serves to enhance community security by deterring unsocial activity that may occur late at night and early in the morning where Sun Point all-in-one solar street light is installed.

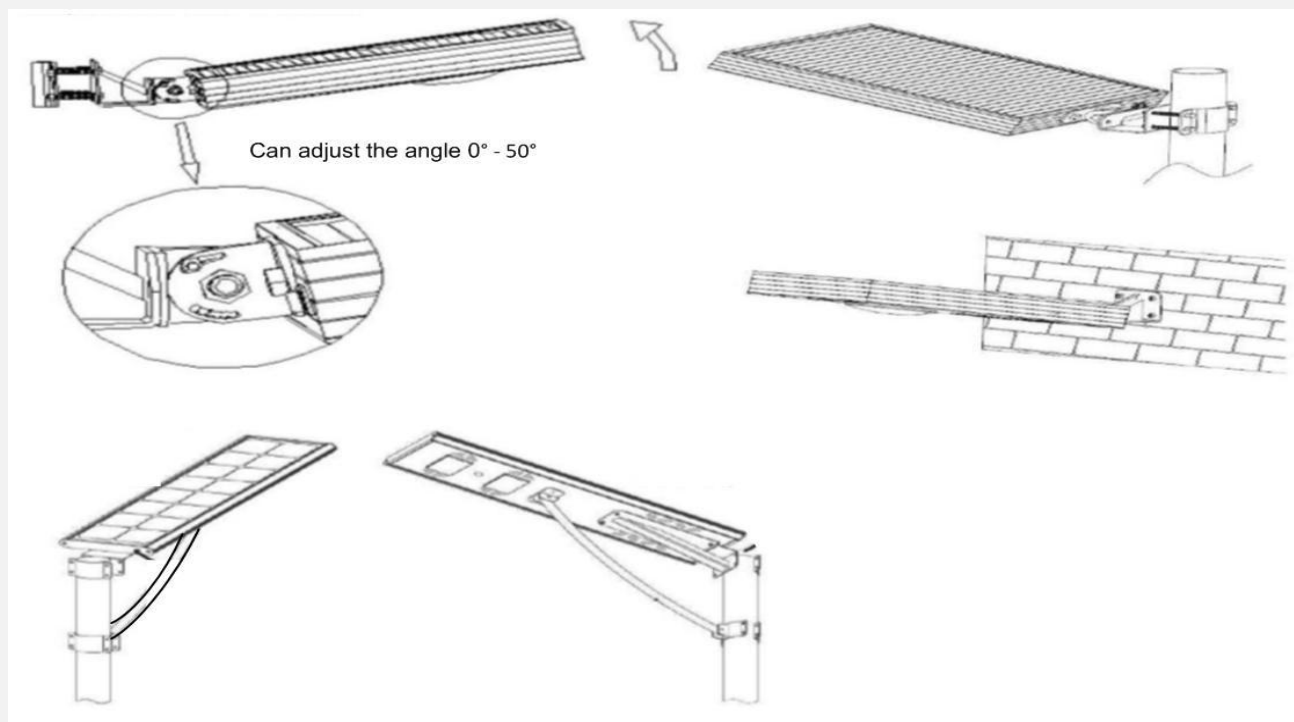




Merits, Technical Data

Installation

Install the solar panel to face south. Meanwhile, you can adjust the lamp head and level as required. You better adjust the lamp head to correspond to your local attitude.



Installation Note:

- Install the fuse before switching on the solar street light
- Tools for tightening the security bolts are provided in the pack
- Place the solar panel much towards North or South to maximize Sun exposure.
- Mount the solar street light pole in a spot more exposed to daily sunlight.
- The solar street light pole should be of average length 4.6m, thickness 2mm and diameter 50 – 90mm of iron or steel material.
- Maximum mounting height of pole is 7 - 8m depending on relative colour temperature of road surface where the solar light is to be installed.
- Unfold the fuse knob and take out the insulating film of the fuse sockets, to check whether the fuse is in a working order, then refit and tighten back the fuse in its position.
- Place the lamp on the pole by its sleeve. Suitable screw should be used to ensure a stable installation.

NB: As with all solar products, performance wholly depends on hours of direct Sunlight and orientation of the solar panel.

Disclaimer

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