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INNOVATIVE LED LIGHTING

by PolyBrite International, Inc.

Generation-1 All in One Solar Street Light



Polybrite advantage:

1. PolyBrite, has focused on All in one Solar Led Street Light since 2014.
2. One-stop All in one Solar Led Street lighting solutions (lighting designing, ROI.
3. All in one Solar Led Street Light with innovative design, open mold.
4. R&D team: 20 engineers with more than 10 years work experience in LED lights.

Product advantages:

1. All in one Solar Led Street Light from 5-80W covers full power range.
2. All in one Solar Led Street Light and raw materials are compliant with UL and TUV CE.
3. Bridgelux and Sunpower as our partner for All in one Solar Led Street Light.
4. High product performance and competitive price.
5. 10 years warranty for All in one Solar Led Street Light.

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Specifications							
Light source	20W	30W	40W	50W	60W	80W	
Solar panel	50W	70W	80W	90W	100W	120W	
Human body sensing	Yes	Yes	Yes	Yes	Yes	Yes	
Dimension	740*305*140mm	1000X370X215mm	1000X370X215mm	1170X370X215mm	1170X370X215mm	1170X370X215mm	
Net weight	14.5KG	17.8KG	18.3KG	18.7KG	19KG	19.3KG	
Luminous	Full load	3200lm	4800lm	6400lm	8000lm	9600lm	12800 lm
	1/3 load	1070lm	1600lm	2100lm	2700lm	3200lm	4300lm
Visual angle	120°	120°	120°	120°	120°	120°	
Color temperature	□6000k-6500k	□6000k-6500k	□6000k-6500k	□6000k-6500k	□6000k-6500k	□6000k-6500k	
Work time	Full power	≥12Hr	≥12Hr	≥12Hr	≥12Hr	≥12Hr	≥12Hr
	Saving mode	≥24Hr	≥24Hr	≥24Hr	≥24Hr	≥24Hr	≥24Hr
Work temperature	charging:0°C~+60°C discharging :-20°C~+60°C storage:0°C~+45°C						
Install height	5~6m	5~6m	5~6m	6-7m	6-7m	6-7m	
Light space	18~20m	8~20m	18~20m	20~25m	20~25m	20~25m	

Features & Comparison:

* All in one Solar LED Street Light Features:



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* All in one Solar LED Street Light Compares:

Our's

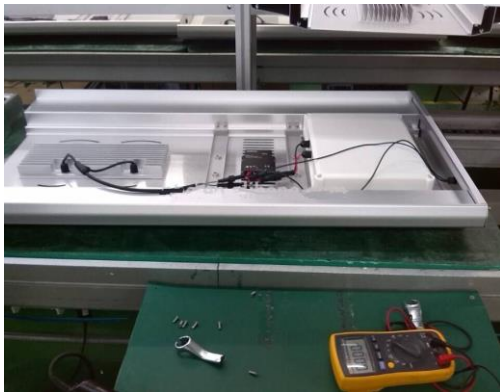


Great protection on battery and controller

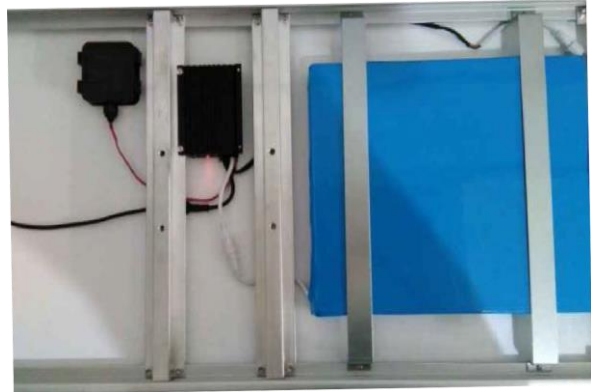
Others'



No protection on battery



Ours with patented heat sink.



Others' with PCB only, No heat sink.

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1. All in one Solar Led Street Light Photos:



2. Led: All in one Solar Led Street Light use High efficacy Bridgelux led,high luminous efficiency, long lifespan, low light decay, good consistency.

3. Led Battery: All in one Solar Led Street Light use the most innovative, high efficiency, long lifespan, reliable; Ventilation power cavity design, low power operating temperature to ensure long life power

4. All in one Solar Led Street Light Heat: All in one Solar Led Street Light use a module type radiator, which has a 5 mm gap between, and interconnected up and down , lighting modules are able to form a good part of the flow field, to ensure the best LED heat dissipation smoothly and quickly by the air diffuser, this ensures suitable temperatures within range in order to ensure the lamps long light decay and lifespan. (Fluid heat dissipation pathway, excellent overall heat dissipation performance.

5. All in one Solar Led Street Light options: All in one Solar Led Street Light, can accommodate smart city technology, 7 pin sockets and 20KVA SPD.



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operation mode and time control, voice control, light control, internet control, wireless control and digital management.

6. Distribution of luminous intensity: All in one Solar Led Street Light uses a state of the art optics design for superior luminous intensity distribution, meets all types of lighting requirements, overall spot is rectangular.

7. Wiring: All in one Solar Led Street Light has a Simple and Reliable quick connect waterproof wiring distribution.

8. Installation: The design of the all in one solar street light allows for an easy installation it combines the best energy saving components---solar panel, led's and battery. With the help of the controller and PIR sensor, superior brightness with low energy, long lifespan and maintenance free operation.

* The data of its working time was measured at latitude 22 °, 113 ° east longitude in sunny days.

The working time will be affected by the surroundings.

The following are tips and directions for all in one solar street light, please pay attention.

① "All in One solar street light" cannot work without sunshine, please select a suitable location according to the local sunshine radiation and the annual total radiation. We suggest the use of both AC and DC charging model in those places that lack of sunshine or have many consecutive cloudy days.

② "All in One solar street light" adopts a long life Lithium battery for storing energy, charging temperature at day time is between: 0°C ~ +60°C, when temperature goes lower than 0°C, the control system will stop automatically to protect the battery, and it will revive to charge the battery when temperature goes higher than 0°C. Discharging temperature at night is between: -20°C ~ +60°C, any ambient beyond that may damage the battery. So please check these factors when selecting the street light.

③ The Battery of the "All in One solar street light" can be stored for 6 months after it is fully charged. Therefore please examine and charge it periodically after long transportation or storage times to prevent damaging.

④ When installing the lights in the Northern Hemisphere, please adjust the solar panel to the South as much as possible to collect maximum sunshine radiation, while in Southern Hemisphere, By the same token, keep the solar panel to the north. At the same time please keep it away from any shadows from houses, trees etc.

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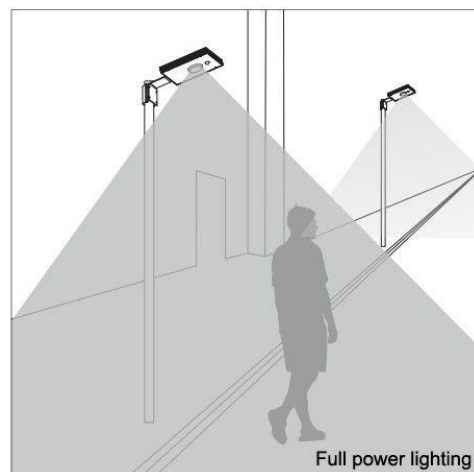
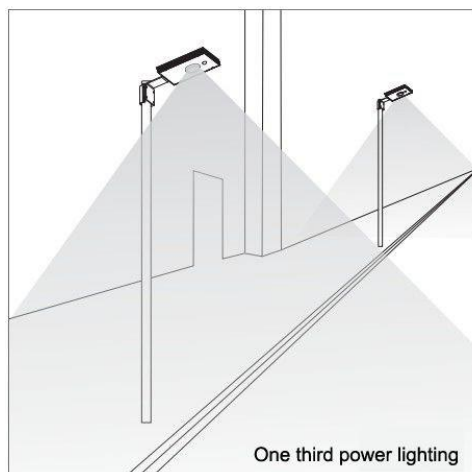
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⑤ Keep the surface of the All in One solar street light clear, it can be cleaned with normal detergent to get maximum power generation, clear dust, tree leaves or any dirt accumulation.

⑥ All in one solar street light is IP65 rated. The vents on the surface are designed for heat radiation. The materials are made of aluminum alloy which can survive environments such as seaside and deserts.

⑦ The fuse location is at the left rear end of the light, please insert the fuse when using. There is one extra fuse included as backup.



Installing Directions:

① Place the light pole into the best spot which has good day light. The light pole should be the length 5-7m, the thickness 2.0mm made of iron or steel, the diameter 80-110mm.

② Please check if the components are all there when opening the packaging, the components are shown below.

③ Pull out the fuse (see below) and check if the fuse is good, then tighten. (If no fuse, then it is a breaker, just turn it on)

④ Place the lamp on the pole by its sleeve, and make sure it is steady.

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