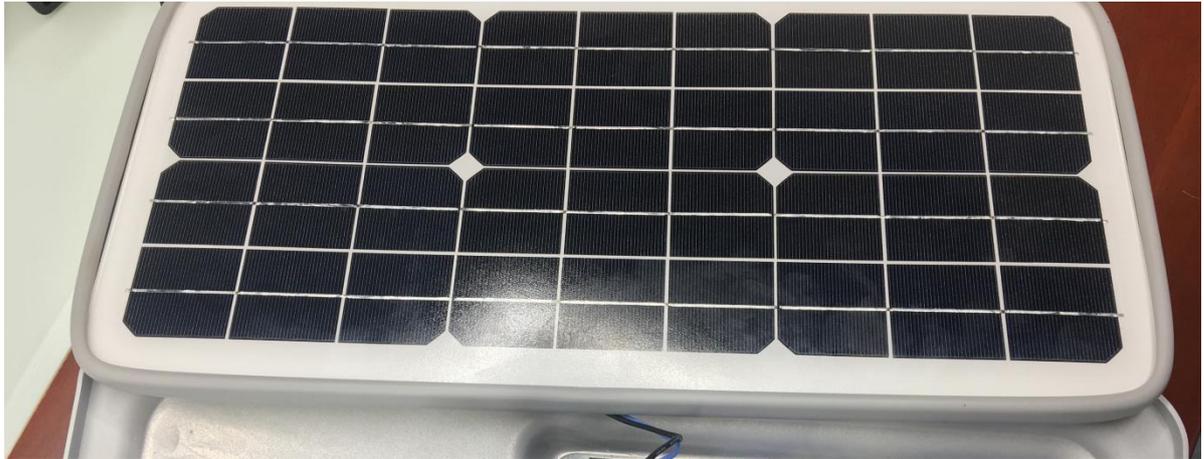


# All-in-one Solar Street Light

## 1. Components:

**Solar panel:** mono crystal silicon. It is a one-piece panel, and we don't use leftover poly-Si solar panel. The conversion rate can up to 19.6% (the standard is 17%).



materials to compose the panel. The recharge rate of mono crystal silicon is faster than

Model	ZS-ST-A-8W	ZS-ST-A-16WS	ZS-ST-A-32W	ZS-ST-A-44W
Solar panel	17.5W	30W	75W	75W

**Sensor:** PIR infra-red sensor or microwave sensor. In general, PIR is suitable for 6-8m distance, and microwave is suitable for 10-12m distance.



**Battery:** (A1 grade) Luthium-ion Li-FePO4 battery. Comparing with the ternary Li-ion battery, the Li-FePO4 can recharge more times and have longer lifespan (2,000times).

Replacing the battery just need to loose the screws. Normal item is fixing with glue, which is hard to replace.

Model	Capacitance	Rated voltage
ZS-ST-A-8W	9.6Ah	12.8v
ZS-ST-A-16WS	16Ah	12.8v

ZS-ST-A-32W	32Ah	12.8v
ZS-ST-A-44W	41.6Ah	12.8v



**LED chip:** Philips high lumen LED 3030,  $\geq 160\text{lm/w}$ , beam angle is 150\*70 degree

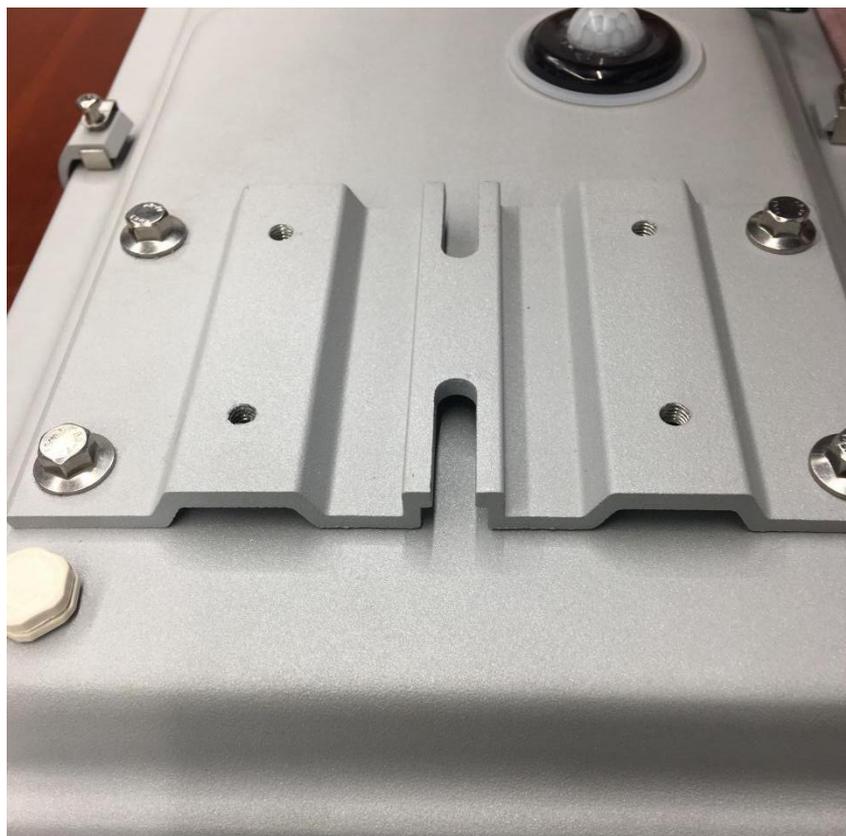
Model	Total Lumens
ZS-ST-A-8W	1273lm
ZS-ST-A-16WS	2445lm
ZS-ST-A-32W	5210lm
ZS-ST-A-44W	6947lm



**Lamp Body:** 1060 aluminum---ultra-high purity, which can up to 99.6%. The best material for anti-corrosion and heat conducting property.

304 stainless steel---stain resistance, low temperature resistance. This

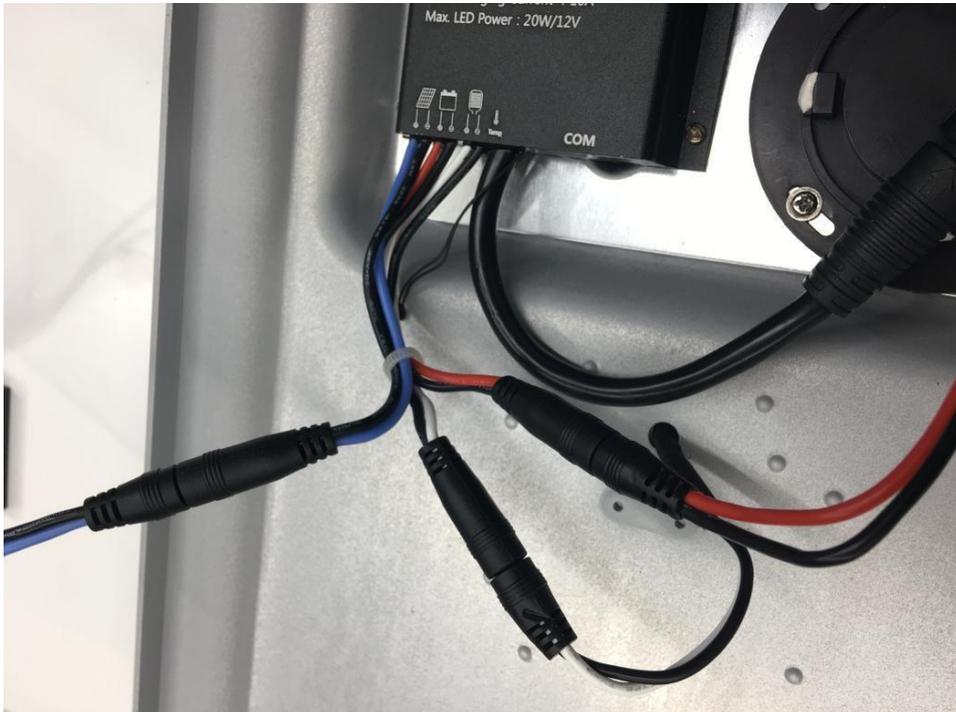
material can prevent the screw from rusting and out of shape so as to fix the item.



**Air vent plug:** When the environment exits different temperature, the internal pressure will be increased. The vent plug can keep the balance of the internal temperature and pressure. It can automatically vent the steam.



**Wire:** Three pairs of wires with corresponding colors (white for lighting source, blue for solar panel, red for battery.) Easy installation.





**Wireless IR remote control** (additional purchasing): Customer can set the operating period and luminance of specific time he want. Generally, we can help you to set up according to your requirement. Purchasing it or not depends on you.



## 2. Supplementary infos:

- a. Corrosion resistance: **Salt spray test > 500hrs**. Its materials can withstand corrosion for 10 years in inland, **for 3-5years in island**.

b. The installation angle can be adjustable, according to different latitude and height (Generally, Latitude+5° ).

c. Easy installation: Only need to lose two screws. There are three wires with corresponding color which can avoid the wrong connection. You just need to connect those wires and fix the screws, and the installation is finished.

d. Waterproof Rating: IP66. It is not easy to be rusted. Dust and water are hard to invade into the lamp body. Our solar street light doesn't need the louver and drain hole, because it used enough aluminum to keep a good heat dissipation. That will longer the battery lifespan.

d. Wind resistance: 65m/s. It is stable in the 17-grade Typhoon simulation test.

e. Operating time: we can set at most 4 periods for the specific brightness for the specific time.

**△ Please combine the specifications, IES reports, PPT introduction and this document for deepen your understanding. If you have any questions, feel free to contact me. Thank you.**

**Anthony Posada**