

SOLAR OUTDOOR LIGHTS MAKE SENSE!

New Generation Solar Street Lights

Every year, the impact of this product usage is equal to



AIO-80W



Configuration

General Proposal

Component Name	Specifications and Remarks	life span	QTY
1. Solar Panel	80W/18V, Mono crystalline >18%Efficency.	>25years	1 pc
2. LED Lamp	80W/12V, Philips lumileds Chip lumen170LM/W,6000K	>50,000hours	1 pc
3. Controller & LifePO4 battery	10A, Automatic Light and Time Control, 12 hours per night	5years	1 pc
	36Ah 12V Lithium, Maintenance free		1 pc

General System Specification

Working Time	11 to 12 hours per night
Sensor Function Model	10% decrease in very hour, 20% running in last hour
Working Condition	-15- 60°C Working Temperature
Certifications	CE, ISO9001,SGS,ROHS,BV



SPECIFICATIONS



ALL IN ONE MODEL (SMD)

Technical Parameters

Wattage Input Voltage LED Chip Lamp Efficiency CRI Life Span Power Factor Color Temperature IP Rate Working Temperature Working Humidity Lamp Fixture 80 W DC 12V Phillips Lumileds 170 lm/W >80 >50, 000 hours >0.95 5700k-6200K IP65 -15C~ 60C 10%~90%RH High-Pressure Die-Casting Aluminum. Corrosion Resistant





2) Controller Technical Parameters

Control system

MPPT: MTTP technology is the use of maximum power point tracking technology, can quickly scan the IV curve of the panel, timely access to the maximum power point, tracking efficiency of 99.5%, significantly improve the efficiency of photovoltaic charging, compared to the traditional PWM controller charging efficiency can be increased more than 30%.

Self-consumption	≤0.3w
Max. Charging Current	10A
Rayed Load Current	10A
System Voltage	12V
Ambient Temp. Range	95%
IP Rate	-35 °C ~75°C
life Span	IP67
Protection Functions	>5 years
	Short-circuit Protection, Reverse Discharging Protection, Polarity Protection, Lightning Protection, Low Voltage load cut-off protection ,Over-charge Protection
Certifications	CE, RoHS



3. Solar Panel

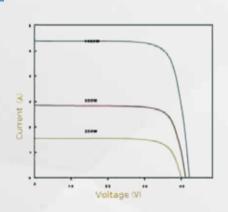
Technical Parameters

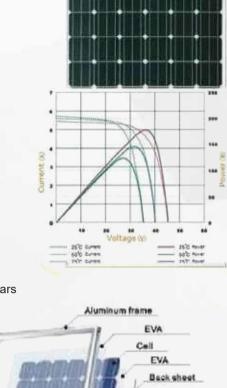
Silicon Type Pmax Tolerance Vmp Imp Voc Isc Conversion Efficiency Operating Temperature Surface Maximum Load Allowable Hail Load Life Time Warranty Certifications

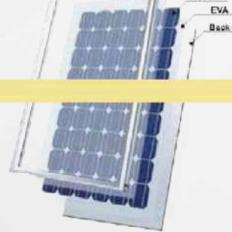
Mono crystalline **80W** ±3W 18.00V 3.88A 21.60V 3.99A 17.5% ~ 18.5% -40C~85C 5400Pa Ø25mm_23m•s⁻¹ More than 25 years Power is more than 90% in 10 years and 80% in 25 years CE, RoHS, IEC61215, SGS

Packaging Data

Dimension 1080*424*43mm







Product Details



Front View



4.Lithium Battery

Battery Capacity (C10 hr) Rated Working Voltage Working Temperature Efficiency

36AH 11.1 V -15C~ 60C 95%



Installation Assistance

Detailed installation manual and installation video will be available after finalizing the order. Besides, we can provide onsite installation training and technical assistance with USER' MANUEL!

Maintenance

Our solar street lights are essentially maintenance free. However, in certain regions with heavy dust, snow or extreme dry weather with little rain, some lever of maintenance is required. • Every Week: Inspect street lights to ensure all lights are working If there are unlit lights, analyze the cause and conduct repairs. • Every 2~6 Months: Inspect and clean solar panels which are covered with dust or sand. The best tool - to clean is a brush with a long pole. Cares should be done to avoid damage • Every 5-10 Years: Replace the solar street light batteries if the voltage drops below normal levels. The battery has an expected life of 5-10 years.

Problems or Trouble Shooting & Solution

Fault Phenomena

Problem Cause

LED Light Doesn't Light up during night

Surrounding light is brighte Light source is damaged The output circuit is open, short, or grounded

Solution

The light source will start automatically after the brightness of surrounding is certain dark

Replace it with the same light source Check the output circuit connection



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