SE-SERIES
ALL IN ONE
SOLAR STREET LIGHT
UP TO 220 LM/W
- SUPPORT 12HOURS UNDER 5-7 RAINY DAYS
- POWER: 10W TO 60W

- Bifacial Solar Panel Efficiency Increased 30%
- High Efficacy Lighting 60W Replace 400W Traditional Model
- Rotatable LED Module Easy Installation
- Smart Lighting Control IOT Remote Monitoring Analysis

EXPERTS WITH PROFESSIONAL SOLUTION
WWW.AOKLEDLIGHT.COM
2019.09-3RD EDITION
**SE SERIES SOLAR STREET LIGHT**

**PRODUCT DESCRIPTION**

- **SE solar LED street light** features all in one design function, low profile design, with PIR/microwave motion sensor and smart controller all built in.
- **Bifacial Solar Panel** design. Suitable for remote region, non electricity supply zone.
- Deep cycle battery, charge and discharge over **2000 times**.
- Continuously **work 5-7 rainy days in intelligent mode**.

**FEATURES**

1. Easy battery replacement design, can be renewed for 7 years.
2. Ultra-high light efficiency, 10 watts equivalent to 20 watts of others at least.
3. Bifacial solar panels, the overall conversion efficiency is increased by 30%.
4. Unique anti-theft technology on battery door.
5. Rotatable LED module, worry-free installation, best solar panel angle adapt to the sun.
6. The various installation methods suit for any application likes light poles, wall surface and etc.
7. From 10 to 60 watts, can replace the traditional 35-240 watts, meeting all road application conditions.
8. More than 30 different optical road lighting designs, adapt to various road conditions but no waste of light.
9. PIR/microwave motion sensor and smart controller all built in. AC and DC complementary, also USB power and alarm supply when emergency use.
By choosing the Luxeon LED chips, single lumen value at 240lm/w, with the aluminum lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very little fading. The sealed lenses are made of strong UV protected PC and are aging and shock resistant. The well-optimized light distribution, makes for a more uniform and wider lighting area.

Philips Lumileds Luxeon 5050 chip creates a first-class light source.

Where there is light radiation, photovoltaic modules are converted to electric energy by solar radiation, and intelligent controller is used to charge electric energy into lithium iron phosphate battery. At the same time, the intelligent controller protects the overcharge and over discharge of the battery. The lighting switch and adjust lighting intelligent control, without manual operation.

- Multiple lighting modes can be programmed remotely by Mobile Bluetooth APP Solar Street light with inbuilt Bluetooth for health monitoring with APP.
The system can pre-set one or more lighting modes according to different time of day and traffic flow, automatically turn on or off any lamp, and adjust the switching time and illumination according to environmental requirements to achieve the purpose of energy saving and consumption reduction.

**IOT MANAGMENT, INTELLIGENT LIGHTING**

AOK perfectly combine traditional solar street lighting architecture+Internet of things + wireless communication technology perfectly, achieve monitoring and management of remote background data, real-time understand the normal working status of each component of solar energy (street lights, photovoltaic panels, batteries, controllers), allow you to know the end customer’s product usage that is thousands of miles away without leaving home, or to manage the opening and closing of street lights and the adjustment of bright spot power in a timely manner.

- Remote monitoring
- Real time monitoring
- SE series with wireless communication function,
- Through the intelligent management system of solar street lamp and wireless module, have remote monitoring and real-time monitoring.

- Automatic fault alarm
- Real time monitoring of solar panel voltage, current, power, battery charging and discharging current, voltage, load working state, controller working state data and fault automatic alarm.

- Remote control
- Support remote switch on and off dimmer and battery, load parameter modification.

- Fault tracking and precise positioning
- Multi peak PWM technology, suitable for partial shading or partial damage of photovoltaic cells, and the tracking efficiency is more than 99%.

- Map location
- Using GIS maps, with geographic display capabilities.

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**SE SERIES SOLAR STREET LIGHT**

**SMART LIGHTING CONTROL SYSTEM**

**DATA & PROJECT MANAGEMENT**

**AOK LED LIGHT CO., LTD.**

**Quality, Honest, Service and Innovation**

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3-year standard warranty, 5-year warranty optional. Please consult with AOK sales for detailed agreement.
The Internet of Things solar street light management system is mainly composed of a street light component+a centralized controller+a single light controller+a smart cloud platform. The centralized controller and the single light controller aggregate the data collected by the single light via the GPRS/NB-IOT wireless communication network. The centralized controller uploads data to the system cloud platform through GPRS data flow, providing data dependence for mobile phone and computer terminal access.

Performance comparison between Smart IOT Solar LED Street Light and Traditional Street Light

<table>
<thead>
<tr>
<th>Solar led street light controller type</th>
<th>PWM/IOT controller</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light decay detecting</td>
<td>✓</td>
<td>Automatic light decay detection and adjustment</td>
</tr>
<tr>
<td>Charging in rainy days</td>
<td>✓</td>
<td>PWM charge 3 rainy days is equivalent to a sunny day</td>
</tr>
<tr>
<td>Battery management</td>
<td>✓</td>
<td>Battery lifespan management</td>
</tr>
<tr>
<td>Remote monitoring</td>
<td>✓</td>
<td>Remotely monitor the status of each street light in real time</td>
</tr>
<tr>
<td>Optimize configuration</td>
<td>✓</td>
<td>Through data analysis, complete the optimal configuration of solar panels and batteries in different regions</td>
</tr>
<tr>
<td>Fault alarm</td>
<td>✓</td>
<td>Automatically detect system failures and alert to mobile phones or computers</td>
</tr>
<tr>
<td>Intelligent analysis</td>
<td>✓</td>
<td>Automatically collect the detailed data for per light at per night, and statistical report analysis</td>
</tr>
<tr>
<td>Artificial intelligence</td>
<td>✓</td>
<td>Big data collection and analysis through the system platform, complete the intelligent operation of street light and achieve stable lighting throughout the year</td>
</tr>
</tbody>
</table>
**SE SERIES SOLAR STREET LIGHT**

**AOK LED LIGHT CO., LTD.**

**TECHNICAL SPECIFICATION**

- **Operating time:** 15 hours full power, intelligent mode 5-7 days.
- **Input Voltage:** 12-24V constant voltage.
- **Control Mode:** Light Control + Motion Sensor/Time Control/PIR Built In.
- **Working Mode:** 30% of intensity at first 4 hrs, 100% bright when people or car pass by, then rest of time 30% of intensity, and 70% of intensity when people pass by.
- **Housing:** Die-Casting Aluminum, Anti-Corrosion.
- **Life Hours:** >50,000 hours.
- **3000K/4000K/5000K/5700K/6500K available. CRI: 70/80

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**ORDERING INFORMATION**

- **AOK**
- **Watts**
  - 10W
  - 15W
  - 20W
  - 25W
  - 30W
  - 35W
  - 40W
  - 45W
  - 50W
  - 60W
- **Voltage**
  - DC=12-24V
- **LED Chips**
  - LS=LUMILED 5050
- **Type of Sensor**
  - 00=Without Sensor
  - 50=Motion Sensor
  - 90=Dimmable
  - 70=PIR (up to 7M)
- **CCT/CTP**
  - 3070=3000K 70CRI
  - 3080=3000K 80CRI
  - 4070=4000K 70CRI
  - 4080=4000K 80CRI
  - 5070=5000K 70CRI
  - 5080=5000K 80CRI
  - 6570=6500K 70CRI
  - 6580=6500K 80CRI
- **Distribution**
  - 1200=120DEG
  - 1230=T2
  - 1240=T3
  - 1250=T4
  - 1260=T5
  - 1270=T6
  - 1280=T7
- **Mount**
  - Type A
  - Type B
  - Type C
  - Type D
  - Type E
- **Option**
  - 10KV (Surge Protector)
  - Intelligent APP control
  - IOT Management
  - AC & DC complementary
  - USB power
  - Alarm
  - Security camera

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**WARRANTY**

3-year standard warranty, 5-year warranty optional. Please consult with AOK sales for detailed agreement.
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**PHOTOMETRY**

![Photometry Diagrams]

**DIMENSIONS**

![Dimensions Illustrations]

**BRACKET OPTIONS**

Type A
Universal Bracket

Type B
Wall Mount

Type C
Round Pole

Type D
Square Pole

**WARRANTY**

3-year standard warranty, 5-year warranty optional. Please consult with AOK sales for detailed agreement.

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Applications

3-year standard warranty, 5-year warranty optional. Please consult with AOK sales for detailed agreement.