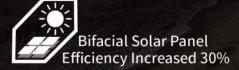


## SE -SERIES

# ALL IN ONE SOLAR STREET LIGHT UP TO 200LM/W

- SUPPORT 12HOURS UNDER 5-7 RAINY DAYS
- POWER: 10W TO 60W







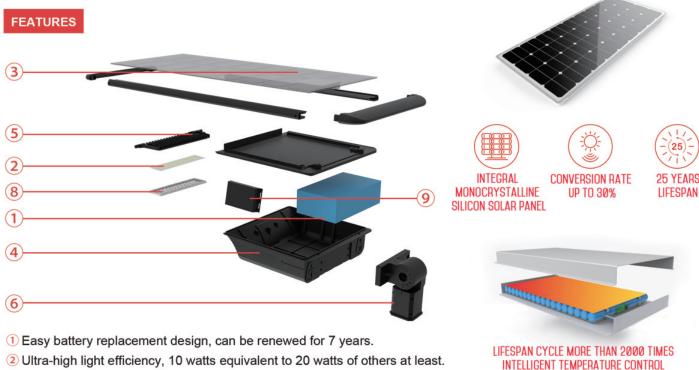


EXPERTS WITH PROFESSIONAL SOLUTION

WWW.AOKLEDLIGHT.COM

#### 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.
- Bilateral 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.



- 2 Ultra-high light efficiency, 10 watts equivalent to 20 watts of others at least.
- 3 Bilateral 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.
- ® 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.



LED CHIP

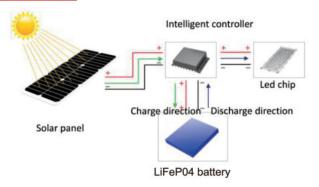




By choosing the luxeon LED chips, single lumen value >200Im/w, with the aluminum lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very little fading. The sealed lenses are made of strong UV protected PC and are aging and shock resistant; The well optimized light distribution, makes for a more uniform and wider lighting area.

Philips Limitless Luxeon 5050 chip creates a first- class light source

#### **WORKING WAY**



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 switches and adjust lighting intelligent control, without manual operation.

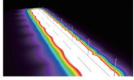
#### HIGH-LUMEN EFFICIENCY LED MODULE

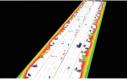
Lumen efficiency > 200lm/w, achieve higher illumination



#### **PHOTOMETRICS DESIGN**

Planning and analyzing of street lights can be done by using lighting design software, which allows lighting simulations. It uses rendering, the process of generating an image from a model, by means of computer programs resulting in different tools for measuring the simulate light levels.





Example of urban branch road

Example of mian road and parking lot

#### MOBILE BLUETOOTH APP

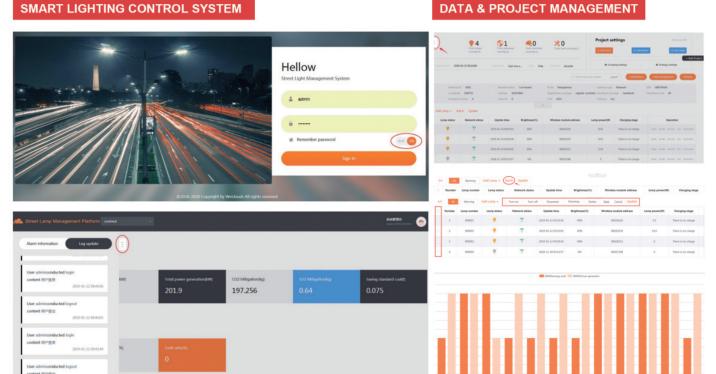




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Parameter settings							
Overcharge voltage 12.6							
Overcharge return voltage 12.0							
Overdischarge voltage 9.0							
Overdischarge return voltage 10.2 V							
Light-control voltage 4.0							
Light-control delay 3							
Unmanned delay time 3 S							
Energy saving management Yes							
SEND							
4 0							

 $\cdot \ \, \text{Multiple lighting modes can be programmed remotely by Mobile Bluetooth APP Solar Street light with inbuilt Bluetooth for health monitoring with APP$ 

#### **SMART LIGHTING CONTROL SYSTEM**



· 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 MANAGEMENT, 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 capabili-





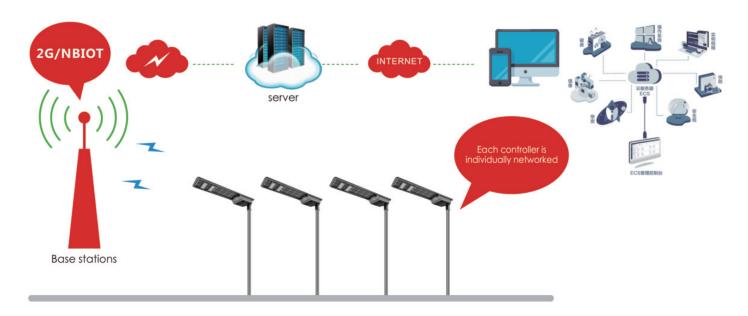




#### WARRANTY

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

Solar led street light controller type	PWM+IOT controller	Instruction
Light decay detecting	$\sqrt{}$	Automatic light decay detection and adjustement
Charging in rainy days	$\sqrt{}$	PWM charge 3 rainy days is equivalent to a sunny day
Battery management	$\sqrt{}$	Battery lifespan management
Remote monitoring	$\sqrt{}$	Remotely monitor the status of each street light in real time
Optimize configuration	$\sqrt{}$	Through data analysis, complete the optimal configuration of solar panels and batteries in different regions
Fault alarm	$\sqrt{}$	Automatically detect system failures and alert to mobile phones or computers
Intelligent analysis	$\sqrt{}$	Automatically collect the detailed data for per light at per night, and statistical report analysis
Artificial intelligence	$\sqrt{}$	Big data collection and analysis through the system platform, complete the intelligent operation of street light and achieve stable lighting throughout the year







#### **TECHNICAL SPECIFICATION**

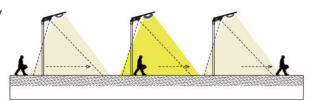
- Operating time: 15 hours full power, intelligent mode 5-7 days.
- Input Voltage: 12-24V constant voltage.
- Control Mode: Light Control + Motion Sensor/Time Control/PIR Built In.
- Working Mode: 30% of intensity at first 4 hrs, 100% bright when people or car pass by, then rest of time 30% of intensity, 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

#### INTENSITY AUTO ADJUSTMENT

**O**% OR 30% POWER

100% POWER

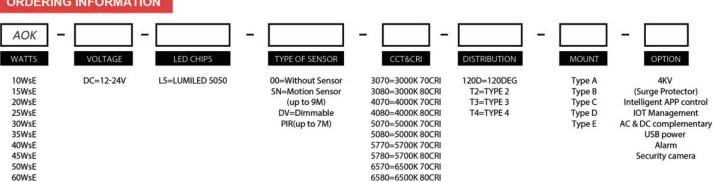
● 0% OR 30% POWER





MODEL WATER REPLACE	DEDI ACE MIII	PLACE MHL LUMENS EFFICACY	FFFICACY	EFFICACY SOLAR PANEL	BATTERY		OPTICAL ID 6 II	ID 8 IV	INSTALLATION	FIXTURE DIMENSION	CARTON BINENOIS		
MODEL	MODEL WATTS REPLACE MHL		EFFICACY		VOLTAGE	WATTS	CHARGING TIME	LENS	IP & IK	HEIGHT	FIXTURE DIMENSION	CARTON DIMENSION	
AOK-10WsE	10W	35W MHL	2100LM	210LMW	30W/18V	12.8V	15.6W	5.12HRS		IP65		L633*W365*H211.4MM L24.92*W14.37*8.32INCH	L825*W190*H435MM L32.48*W7.48*17.13NCH
AOK-15WsE	15W	35W MHL	3030LM	202LMW	30W/18V	12.8V	15.6W	5.12HRS		IP65			
AOK-20WsE	20W	60-80W MHL	4000LM	200LMW	40W/18V	12.8V	230.4W	5.76HRS		IP65	5-7M	L793"W365"H211.4MM L31.22"W14.37"8.32INCH	L985°W190°H435MM L38.78°W7.48°17.13NCH
AOK-25WsE	25W	60-80W MHL	4950LM	198LMW	40W/18V	12.8V	230.4W	5.76HRS		IP65	5-7M		
AOK-30WsE	30W	90-120W MHL	6060LM	202LMW	50W/18V	12.8V	307.2W	6.14HRS	65*150° /75*160°	IP65	- 5-8M	L948"W365"H211.4MM L37.32"W14.37*8.32INCH	L1140°W190°H435MM L44.88°W7.48°17.13NCH
AOK-35WsE	35W	90-120W MHL	7070LM	202LMW	50W/18V	12.8V	307.2W	6.14HRS	/90°100° /120°	IP65			
AOK-40WsE	40W	120-160W MHL	8120LM	203LMW	60W/18V	12.8V	384W	6.40HRS		IP65	- 6-9M	L1103*W365*H211.4MM L43.43*W14.37*8.32INCH	L1295"W190"H435MM L50.98"W7.48"17.13NCH
AOK-45WsE	45W	120-160W MHL	9000LM	200LMW	60W/18V	12.8V	384W	6.40HRS		IP65			
AOK-50WsE	50W	160-200W MHL	9900LM	198LMW	70W/18V	12.8V	460.8W	6.58HRS		IP65	6-10M	L1263"W365"H211.4MM L49.72"W14.37"8.32INCH	L1455*W190*H435MM L57.28*W7.48*17.13INCH
AOK-60WsE	60W	160-200W MHL	12000LM	200LMW	80W/18V	12.8V	537.6W	6.72HRS		IP65	7-12M	L1263*W365*H211.4MM L49.72*W14.37*8.32INCH	L1610*W190*H435MM L63.39*W7.48*17.13INCH

#### **ORDERING INFORMATION**





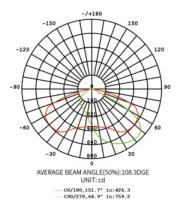


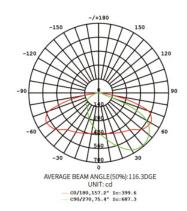




3-year standard warranty, 5-year warranty optional. Please consult with AOK sales for detailed agreement.

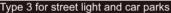
#### **PHOTOMETRY**

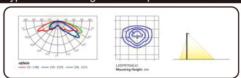




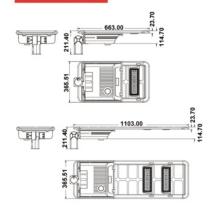
#### Type 2 for street lighting, cycle paths and footpaths

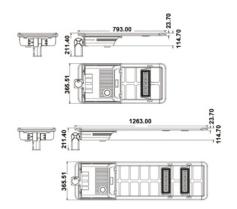
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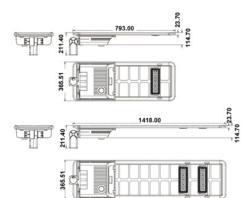




#### **DIMENSIONS**



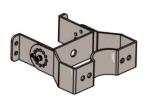




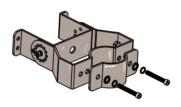
#### **BRACKET OPTIONS**



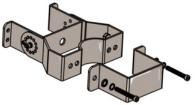




Type B Wall Mount



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.

#### **APPLICATIONS**











#### WARRANTY

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