

SE02 -SERIES SOLAR STREET LIGHT **UP TO 180LM/W**

- SUPPORT 12HOURS UNDER 2-3 RAINY DAYS
- POWER: 60W/80W/100W





EXPERTS WITH PROFESSIONAL SOLUTION

> WWW.AOKLEDLIGHT.COM V.20_09

INTRODUCTION

Outdoor solar lighting systems use solar cells which convert sunlight into electricity. Electricity is stored in batteries for use at night. SE series solar lights are easy to install and virtually maintenance free. Using them won't increase your electric bill.

- **SE02 Solar LED Street Light** features all in one design function, low profile design, with photocell sensor, timing, dimming, intelligent power saving, morning light, microwave sensor available.
- Bifacial Solar Panel design. Suitable for remote region, no-electric supply zone.
- Deep cycle battery, charge and discharge over 2000 times.

FEATURES

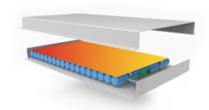






UP TO 30%

E INTEGRAL
MONOCRYSTALLINE
SILICON SOLAR PANEL



LIFESPAN CYCLE MORE THAN 2000 TIMES INTELLIGENT TEMPERATURE CONTROL

- Die-casting aluminium housing, anti-corrosion coating.
- Easy battery replacement design, can be renewed for every 7 years.
- Ultra-high light efficiency, 10 watts equivalent to 20 watts of others at least.
- Bilateral solar panels, the overall conversion efficiency is increased by 30%.
- Rotatable LED module, worry-free installation, best solar panel angle adapt to the sun.
- Accurate optical road lighting designs, adapt to various conditions with no waste of light.

LED CHIP

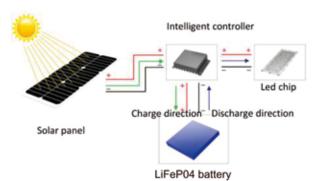




LONLONG

Philips Lumileds Luxeon 3030/5050 chip creates a first- class light source. By choosing Luxeon LED chips, single lumen value >180Im/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.

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 > 180lm/w, achieve higher illumination





Angle of Light Source: -60°/+60°



High luminous efficiency

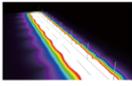
Long lifespan

Less heat

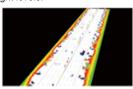
Low light decay

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

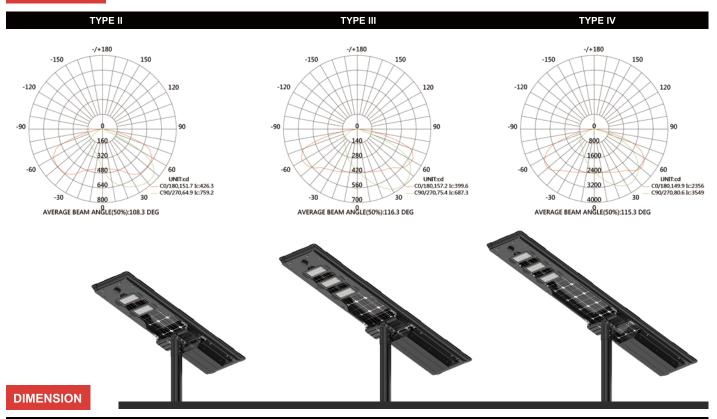
TECHNICAL SPECIFICATIONS

	AOK-6	0sE02	AOK-80)WsE02	AOK-10	OWsE02		
Wattage	60	W	80	W	10	0W		
LED Chips	3030	5050	3030	5050	3030	5050		
Lumen Output	9000lm	10800lm	12000lm	14400lm	15000lm	18000lm		
Efficacy	150lm/w	180lm/w	150lm/w	180lm/w	150lm/w	180lm/w		
Optional Beam Angle			T2/T3/	/T4/T5				
ССТ	3000K~6500K							
Input Voltage	12-24V DC							
LED Driver	Meanwell OR Others							
IP Rating	IP65							
Photovoltaic panel	Double crystal photovoltaic panel							
Solar Panel	18V/	LOOW	36V/130W		36V/	36V/160W		
Li-on Battery	538WH		768WH		922WH			
	12.8V 42AH		25.6V 30AH		25.6V 36AH			
Charing Time	6hrs		6hrs		6hrs			
Run Time(@full power)	8hrs 8hrs		81	8hrs				
Installation Height	8-9M(26-29ft)		10-11M(32-36ft)		12-13M(39-42ft)			
Working Temperature	-10°C to 50°C (-14°F to 122°F)							
Charing Temperature	-0°C to 45°C (32°F to 113°F)							
Control system	MPPT intelligent controller							
Maximum Autonomy	Operate under 2-3 rainy days							
Motion Sensor Mode	30%-100% 28hrs (Max)		30%-100% 28hrs (Max)		30%-100% 28hrs (Max)			
	20%-80% 40hrs (Max)		20%-80% 40hrs (Max)		20%-80% 40hrs (Max)			
Constant Mode (Full Charge)	100% 8hrs		100% 8hrs		100% 8hrs			
	70% 12hrs		70% 12hrs		70% 12hrs			
	40%	20hrs	40% 20hrs		40% 20hrs			
Control Options	Photocell sensor, timing, dimming, intelligent power saving, microwave sensor available							
Certification	UL/ CUL FCC DLC SAA RCM CE RoHS							

ORDERING INFORMATION

AOK							
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	OPTION
60WSE02 80WSE02 100WSE02	NV=12-24V DC	L3=LUMILED 3030 L5=LUMILED 5050	00=Without Sensor SN=Motion Sensor PH=Photocell DV=Dimmable	3070=3000K 70CRI 4070=4000K 70CRI 5070=5000K 70CRI 5770=5700K 70CRI 6570=6500K 70CRI 3080=3000K 80CRI 4080=4000K 80CRI 5080=5000K 80CRI 5780=5700K 80CRI 6580=6500K 80CRI	T2=TYPE II T3=TYPE III T4=TYPE IV T5=TYPE V	A=Post Top	4KV SPD Intelligent Control

PHOTOMETRY



AOK-60W SE02



AOK-80W SE02



AOK-100W SE02







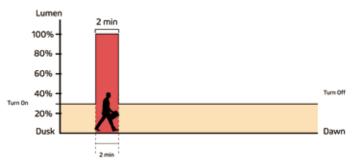
WARRANTY

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

AUTONOMY CONTROL GUIDE

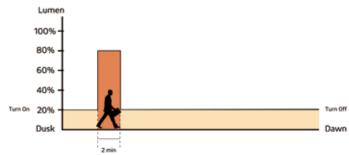
30%~100% MOTION SENSOR MODE

Constant 30% brightness (turns on at dusk, turns off at dawn); 100% brightness turns on for 2 minutes when motion is detected.



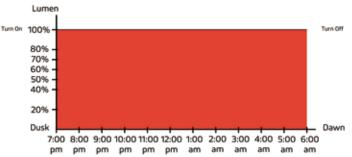
20%~80% MOTION SENSOR MODE

Constant 20% brightness (turns on at dusk, turns off at dawn); 80% brightness turns on for 2 minutes when motion is detected.



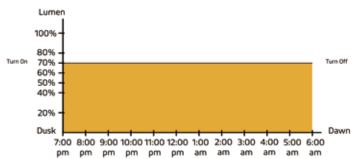
100% CONSTANT MODE

100% brightness from dusk to dawn.



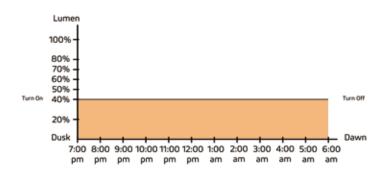
70% CONSTANT MODE

70% brightness from dusk to dawn.



40% CONSTANT MODE

40% brightness from dusk to dawn.







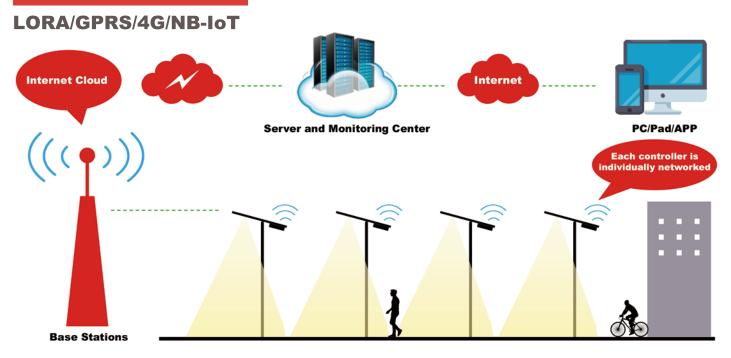






WARRANTY

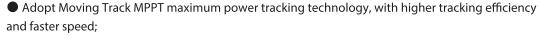
INTELLIGENT CONTROL SOLUTIONS



IoT perfectly combines traditional solar street lighting fixture, internet of things + wireless communication technology, 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 product usage on the client terminal 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 on time.

Controller GPRS/NB-IoT Inside





- Lead-acid battery and lithium battery are universal. Operating parameters can be set by remote controller;
- ultra Green power control technology with extremely low static power consumption and dormant current;
- Lead acid battery multi-stage temperature compensated constant voltage charging;
- 10 Programmable load power/time control setting;
- Battery charging and discharging high and low temperature protection function, working temperature can be set;
- A variety of intelligent modes can be selected, automatically adjust the load power according to the battery power;
- High precision digital booster constant-current control algorithm, high efficiency and high constant-current precision;
- 2.4G wireless communication, can set read parameters, read status, etc;
- Battery/PV reverse connection protection, LED short circuit/open circuit/limited power protection and other multiple protection functions.



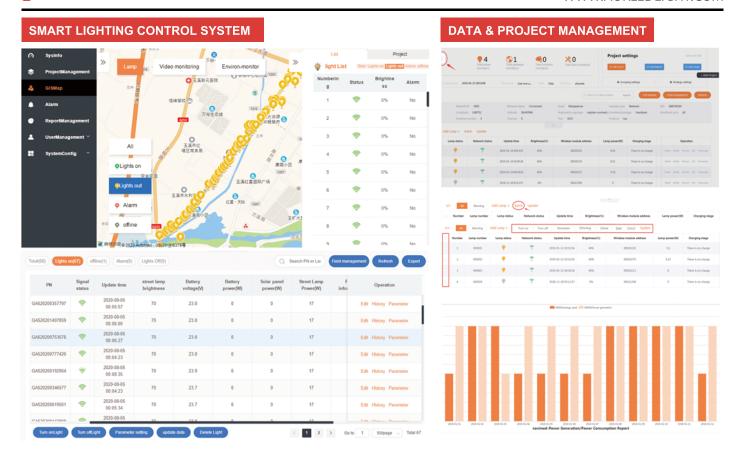






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- · The Internet of Things solar street light management system can pre-set one or more lighting modes according to the different time of day and traffic flow, automatically turn on or off any light, and adjust the switching time and illumination according to environmental requirements to achieve the purpose of energy-saving and consumption reduction.
- The integrated system is mainly composed of a street light component a centralized controller, a single light controller, and 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.

APP CONTROL



Remote monitoring real time monitoring

With wireless communication function, through the intelligent management system of solar street lamp and wireless module, have remote monitoring and real-time nonitoring.



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



Map location

Using GPS maps, with geographic display capabili-









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