





SE-SERIES

ALL IN ONE SOLAR STREET LIGHT UP TO 220 LM/W

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







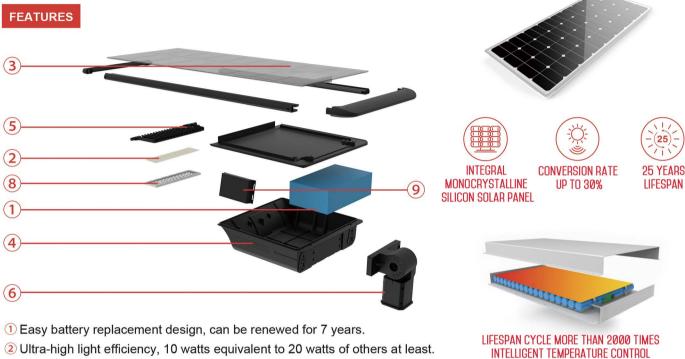




WWW.AOKLEDLIGHT.COM 2019.09-3RD EDITION

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.



- 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.
- 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.
- 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

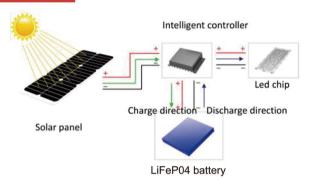




By choosing the luxeon LED chips, single lumen value at 240lm/w, with the aluminum lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very little fading. The sealed lenses are made of 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

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 switch and adjust lighting intelligent control, without manual operation.

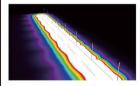
HIGH-LUMEN EFFICIENCY LED MODULE

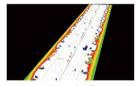
Lumen efficiency > 220lm/w, achieve higher illumination



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 simulatec 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 V						
Overdischarge voltage 9.0 V						
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 🗆						

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

DATA & PROJECT MANAGEMENT

SMART LIGHTING CONTROL SYSTEM

Hellow Street Light Management System | Street Light Management System | S

· 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 managenent 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 geopraphic display capabilities.



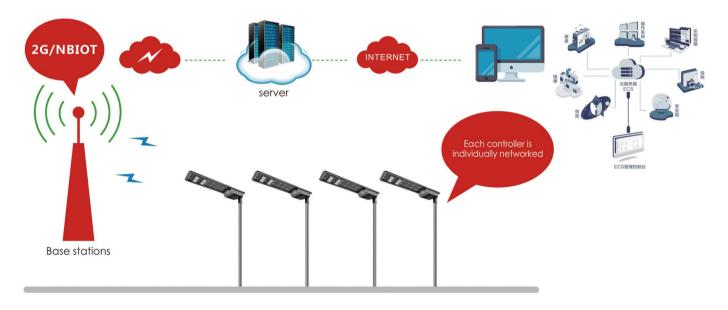






WARRANTY

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	√	Automatic light decay detection and adjustement
Charging in rainy days	√	PWM charge 3 rainy days is equivalent to a sunny day
Battery management	√-	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	√°	Automatically detect system failures and alert to mobile phones or computers
Intelligent analysis	√	Automatically collect the detailed data for per light at per night, and statistical report analysis
Artificial intelligence	√°	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-Corrission.
- Life Hours: >50,000 hours.
- 3000K/4000K/5000K/5700K/6500K available. CRI: 70/80

INTENSITY AUTO ADJUSTMENT

O% OR 30% POWER



● 0% OR 30% POWER







10W/15W

20W/25W

30W/35W

40W/45W

50W

60W

						Battery								
Model Wa	Wattage	Wattage Replacement	Lumens (+/-5%)	Efficacy	Solar Panel	Voltage	Wattage	Charging Time	Optical Lens	IP&IK Ir Rating	Installation Height	Fixture Dimension	Carton Dimension	
10WsE	10w	35W MHL	2205lm	218lm/w	30w/18v	12v	153.6w	5.12 hrs	IP65	IDes 3	3-6M	L633*W365*H211.4mm	L825*W190*H435mm	
15WsE	15w	35W MHL	3166lm	210lm/w	30w/18v	12v	153.6w	5.12 hrs		3-0101	L24.92*W14.37*8.32Inch	L32.48*W7.48*17.13Inch		
20WsE	20w	60-80W MHL	4174lm	210lm/w	40w/18v	18v	230.4w	5.76 hrs		IP65	ID65 5-7	5-7m	L793*W365*H211.4mm	L985*W190*H435mm
25WsE	25w	60-80W MHL	5163lm	206lm/w	40w/18v	18v	230.4w	5.76 hrs			5-/m	L31.22*W14.37*8.32Inch	L38.78*W7.48*17.13Inch	
30WsE	30w	90-120W MHL	6091lm	203lm/w	50w/18v	24v	307.2w	6.14 hrs	65*150° /75*160°	5*160° 0*100°	IDEE 5 OM	5-8M	L948*W365*H211.4mm	L1140*W190*H435mm
35WsE	35w	90-120W MHL	7368lm	210lm/w	50w/18v	24v	307.2w	6.14 hrs	/90*100° /120°		2-91/1	L37.32*W14.37*8.32Inch	L44.88*W7.48*17.13lnch	
40WsE	40w	120-160W MHL	8382lm	209lm/w	60w/18v	30v	384w	6.40 hrs		IP65	6-9M	9M L1103*W365*H211.4mm L43.43*W14.37*8.32Inch	L1295*W190*H435mm L50.98*W7.48*17.13lnch	
45WsE	45w	120-160W MHL	9300lm	206lm/w	60w/18v	30v	384w	6.40 hrs			0-9IVI			
50WsE	50w	160-200W MHL	10091lm	203lm/w	70w/18v	36v	460.8w	6.58 hrs		IP65	6-10M	L1263*W365*H211.4mm L49.72*W14.37*8.32Inch	L1455*W190*H435mm L57.28*W7.48*17.13Inch	
60WsE	60w	200-240W MHL	12480lm	208lm/w	80w/18v	42v	537.6w	6.72 hrs		IP65	7-12M	L1418*W365*H211.4mm L55.83*W14.37*8.32lnch	L1610*W190*H435mm L63.39*W7.48*17.13lnch	

ORDERING INFORMATION

AOK WATTS 10WsF 15WsE 20WsE

25WsE 30WsE 35WsE 40WsE 45WsE 50WsE

60WsE

VOLTAGE

DC=12-24V

LED CHIPS

L5=LUMILED 5050

00=Without Sensor

TYPE OF SENSOR

SN=Motion Sensor ((up to 9M)) DV=Dimmable PIR(up to 7M)

CCT&CRI

3070=3000K 70CRI 3080=3000K 80CRI 4070=4000K 70CRI 4080=4000K 80CRI 5770=5700K 70CRI 5780=5700K 80CRI

5070=5000K 70CRI 5080=5000K 80CRI 6570=6500K 70CRI 6580=6500K 80CRI DISTRIBUTION

T2=T202 T3=T302 T4=T402

120D=120DFG

MOUNT

Type A Type B Type C Type D Type E

OPTION 10KV (Surge Protector) Intelligent APP control

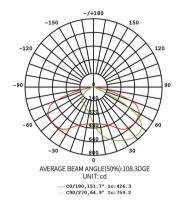
IOT Management AC & DC complementary USB power Alarm Security camera

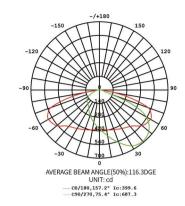






PHOTOMETRY

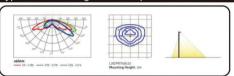




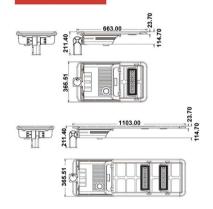
Type 2 for street lighting, cycle paths and footpaths

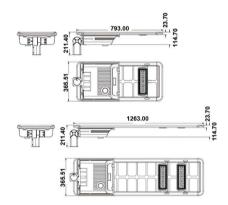
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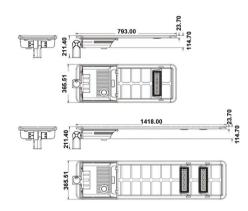




DIMENSIONS

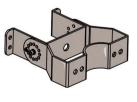


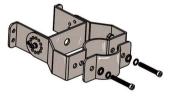


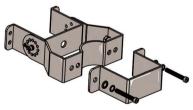


BRACKET OPTIONS









Type A Universal Bracket

Type B Wall Mount Type C Round Pole

Type D Square Pole







WARRANTY

APPLICATIONS











WARRANTY