

200+ Patent Certificates
\$1,000,000+ Annual Energy Saving
20,000+ Projects Successfully Installed



All in One Solar Street Light

Power: 30W/60W/80W



SAF Series



Innovative & Tailored
Lighting Solutions for **Success**
www.aokledlight.com

Discover **SAF** Series



For other certificates please request


**High & Low
Temperature
Solution Optional**
-20°C~60°C (-4°F~140°F)

Solar Panel
Lengthening Solution



WARRANTY

3 Year Limited Warranty,
5 Year Preferred Warranty.
Please consult with our sales for detailed agreement.

- Utilizing LiFePO4 batteries, providing over 2000 cycles of charge and discharge, ensures safety, compact size, and extended lifespan.
- In intelligent mode, it can run continuously for up to 9-12 rainy days.
- Aluminum fixture housing for durability.
- UV stabilized polyester powder paint finish resists corrosion.
- Mounting options include Post Top & Side Entry.
- Streamlined design minimizes wind resistance.
- Optical systems maintain an IP66 rating.
- ULOR=0% eliminates up-light pollution.
- Induction dimmer intelligent controller with optional presence detection sensor. Features an energy-saving mode with adjustable levels to extend lighting duration and automatically adjust brightness.

Advantages of SAF All in One Solar Street Light



**Monocrystalline
Silicon Solar Panel**



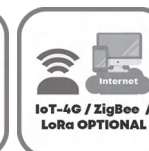
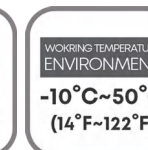
**Long Lifespan
Li-ion Battery & MPPT**



**Tool-less
Maintenance**



**Intelligent Lighting
Control**

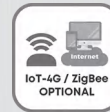


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AOK[®]
Quality, Honesty, Service and Innovation

Key Components



LiFePO4 Battery

Uses LiFePO4 batteries, enduring over 2000 charge/discharge cycles for safety, compactness, and longer lifespan.

01



Remote Control

The lighting program can be easily modified to save more energy and extend working time during low sunlight, thereby prolonging battery life.

02



MPPT Charge Controller

All street lights use the MPPT solar controller, boosting charging efficiency by 30% compared to PWM and ensuring more stable performance.

03



High Brightness LED Chips

It uses ultra-high brightness LED chips to provide the best lighting performance with minimal power consumption. Efficacy up to 230lm/W

04



Optics Lens

The distributions design focused on the road's center, reducing light pollutions. Various lens patterns are available to meet different project needs.

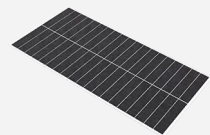
05



High Power Solar Panel

Using monocrystalline silicon solar panels with a conversion efficiency of over 23%

06



Multiple Lens Solution Options



> **Standard**
PC+ Glass Solution



> **Option 1**
PC Lens Solution



> **Option 2**
PC Lens Solution
Adjustable Module
Enhanced Light Efficiency

LiFePO₄ Battery

Our lighting fixtures integrate industry-preferred Lithium Iron Phosphate (LiFePO₄) batteries, delivering superior longevity, safety, and performance for solar applications. With a lifespan exceeding 2,000 cycles at 50% Depth of Discharge (DoD), these batteries ensure reliable operation for over 10 years under daily cycling conditions.

Extreme Conditions Ready

-10°C to 50°C (14°F to 122°F)

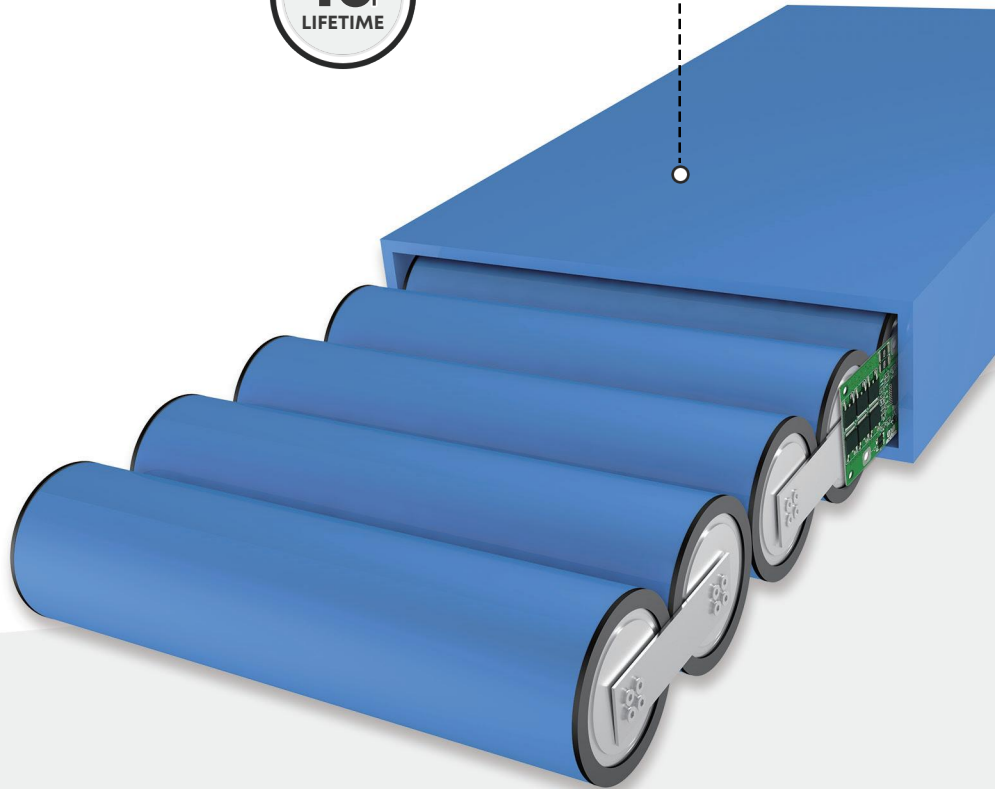
-20°C to 60°C (-4°F to 140°F) optional



LIFESPAN UP TO 5000 cycles

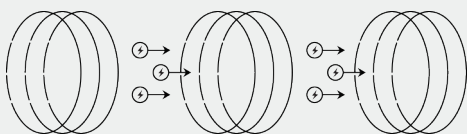
Final interpretation rights regarding operational achievement conditions are vested solely in AOK.

This figure is for reference only
Battery specifications vary slightly between different models. >>



BMS System

Our batteries integrate an advanced Battery Management System (BMS) with multi-layered hardware safeguards.

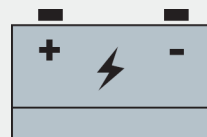


Over & Under Current - Overload

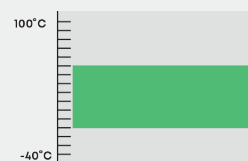
Over & Under Voltage - Over/Under Charge

Temperature Management

LiFePO₄

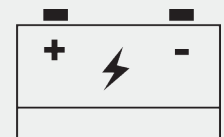


>2000 cycles

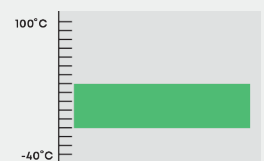


-10°C-50°C

NiMH



500 cycles

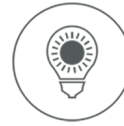


-10°C-30°C

Energy-efficient Lighting Systems

Single lumen efficiency **>200lm/W**
achieve higher illumination

- The light engine utilizes cutting-edge energy-efficient LEDs and specialized optics tailored for professional use.
 - Featuring 5050 LED chips, our lighting solutions range from high-level specialized lights to cost-effective luminaires of exceptional quality.
- Custom LED chip options are also available.



High Efficiency



Less Calorific Value



Low Light Decay

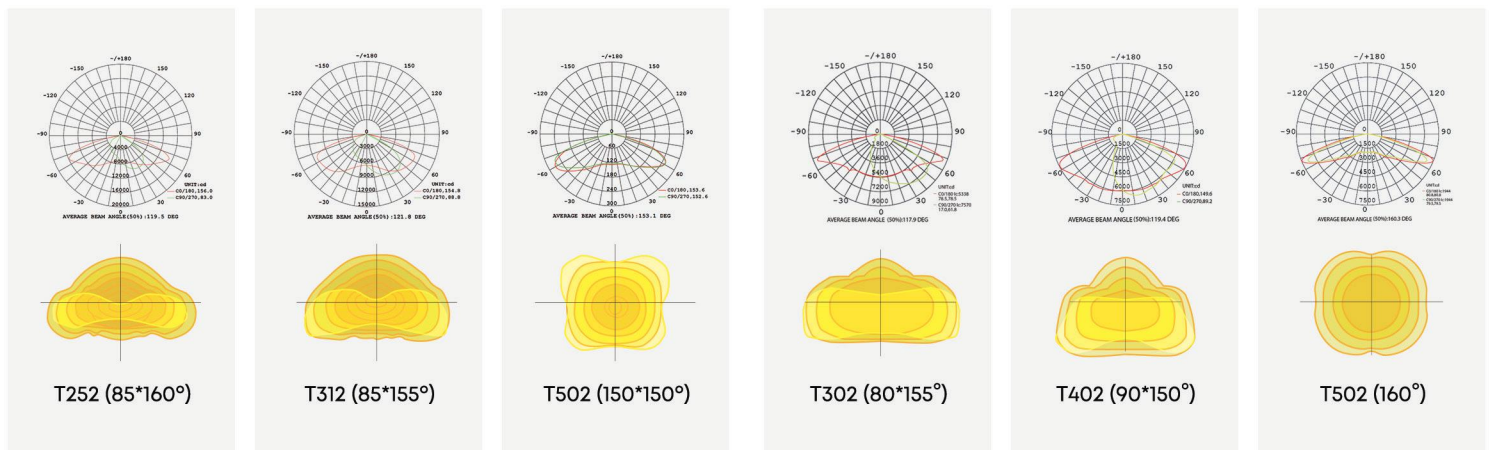


Long Lifespan

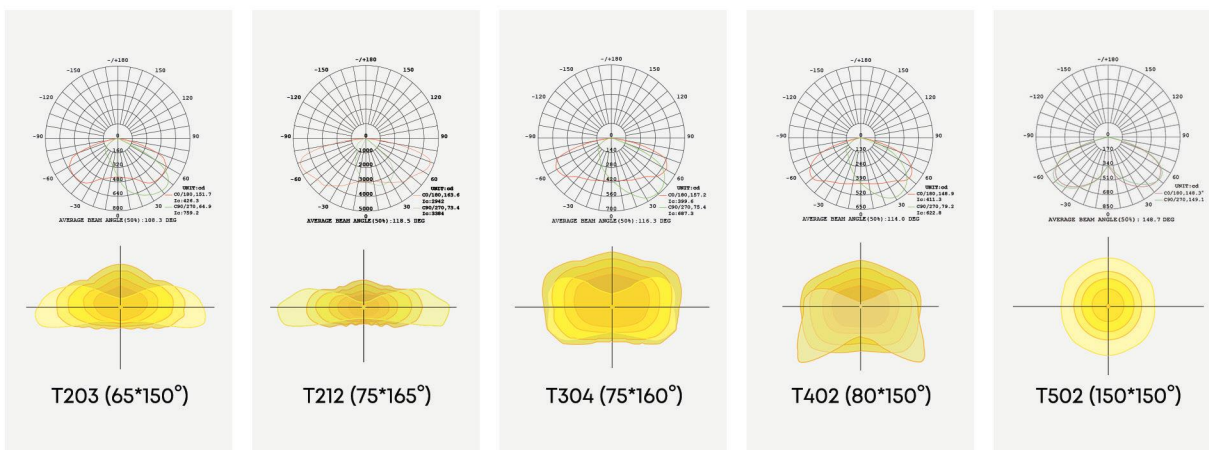
Multiple Distribution Options

General solution, accurate light distribution design, flexible to match the project requirements:

> Standard: PC+ Glass Solution

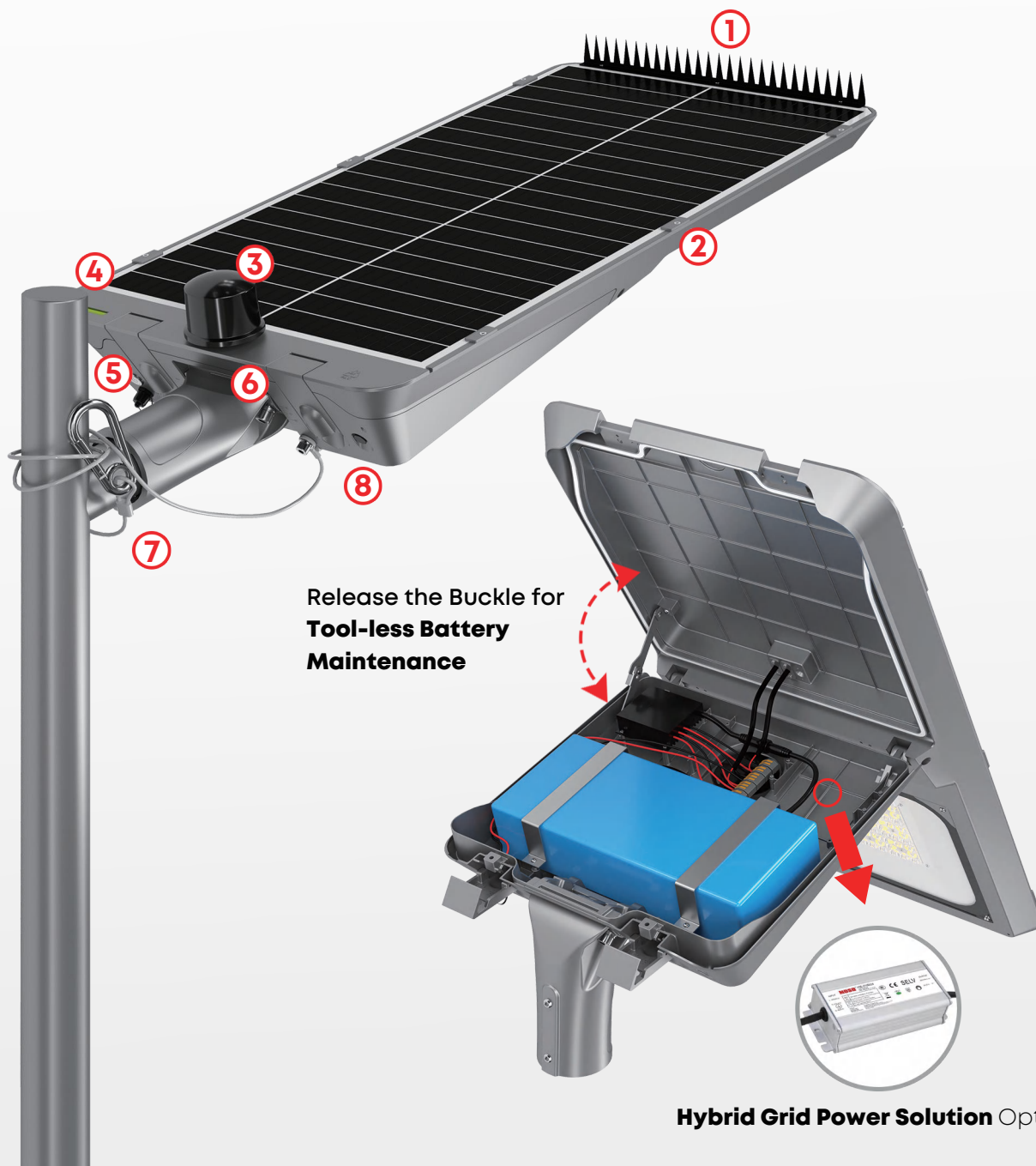


> Option 2: PC Lens Solution (Adjustable Module)

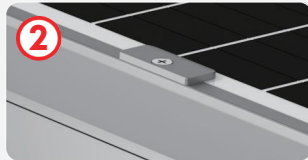


* Due to working temperature and CCT/CRI adjustments, actual photometric values may vary slightly. Please consult the measured IES file for accurate data. The above information is for reference purposes only.

Construction Features



Bird Spike Optional



Dustproof Design



Zhaga Sensor Optional



With Level Bubble



Switch & Charging Port



**Bracket Adjustable
(-5° to +15°)**



Safety Rope



Breather Vent

Application of **Typical Networking** of Smart Street Light (optional)



Single Lamp Control

Control street light switch, brightness adjustment, current acquisition. Voltage acquisition, power calculation and power factor functions.



Wireless Network

From the device to the cloud,
NB-IoT, GPRS, LTE and other cellular
networks are used, without cabling.



Fault Management

The street light can automatically report fault information, troubleshoot faults through the platform, and query historical faults.



Energy Management

Supports online monitoring and storage of energy consumption and configuring energy saving policies.



Intelligent Monitoring

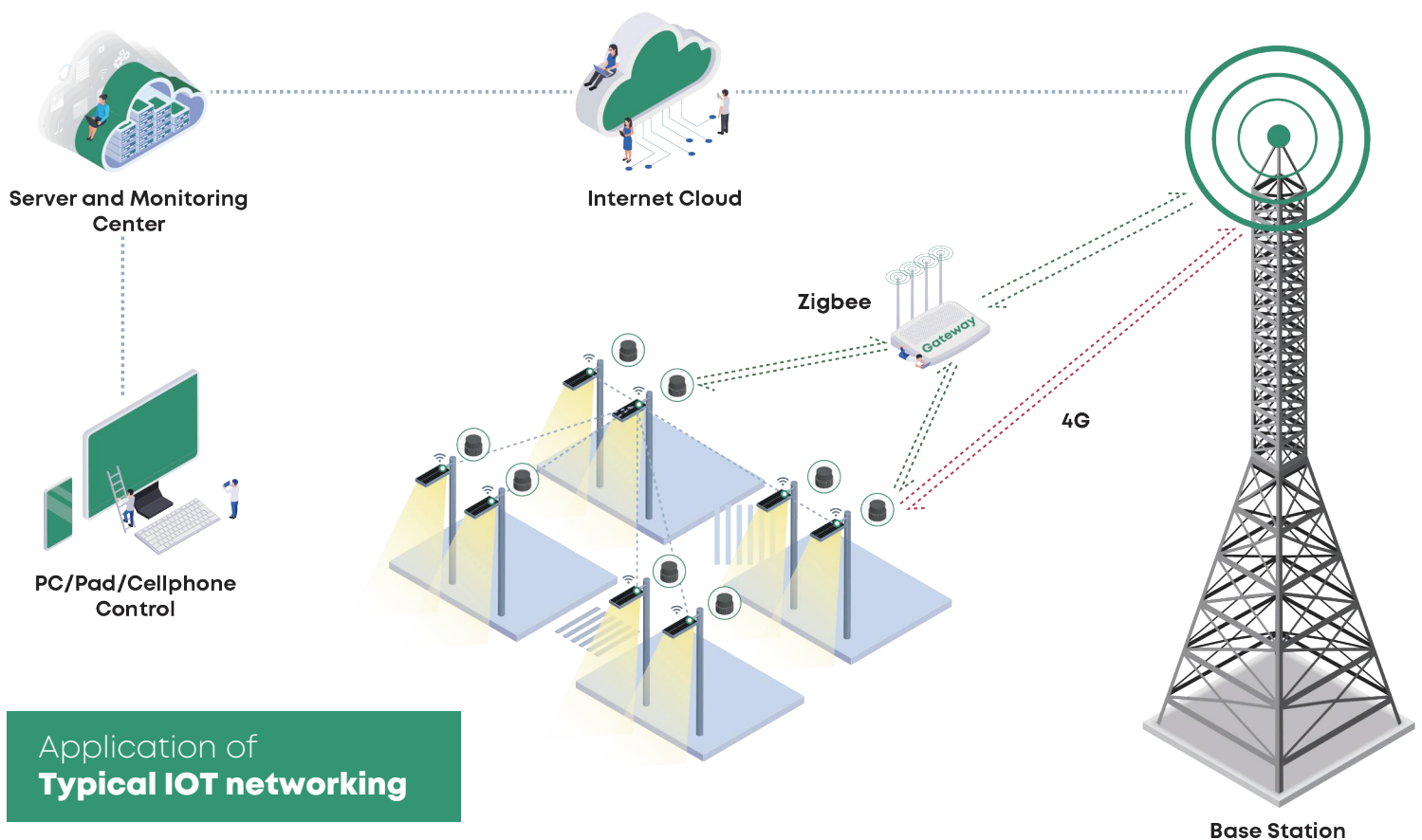
Support remote monitoring and remote control through PC web and mobile APP.



Big Data Analysis

Platform data enables street light fault and energy analysis for maintenance and energy savings.

IoT Connected Ready



Application Reference

- Road & highway lighting
- Urban road & street lighting
- Residential area lighting
- Parks & perimeter lighting
- Parking lot lighting
- Riverside & jogging track





Parameter Table

Specification			
Model	AOK-30WSAF-L	AOK-30WSAF-M	AOK-30WSAF-H
Power	30W	30W	30W
Control Option	Photocell ,Dimming,sensor, Zhaga Zigbee iot/4G iot		
Grid Hybrid Power Solution(optional) Driver	Inventronics/MOSO		
Work Mode	2H-Detected 100%, None 30% ;3H-Detected 70%, None 30% ;3H-Detected 50%, None 20%; 4H-Detected 30%, None 10%		
Photometric Data			
LED Manufacturer	A 5050		
Lens	Standard: PC+glass; Optionl: PC		
Efficacy(lm/w)	205lm/W	205lm/W	205lm/W
Luminous Flux(lm)	6150lm	6150lm	6150lm
ULOR	= 0%, @ Luminaire inclination 0°		
CCT	3000K, 4000K, 5000K, 5700K, 6500K		
CRI	70Ra		
Beam Angle	Standard (PC+ Glass Solution): T252 (85°160°)/T312 (85°155°)/T502 (150°150°) Option 1 (PC Lens Solution): T302 (80°155°)/T402 (90°150°)/T502 (160°) Option 2 (PC Lens Solution-Adjustable Module): T203(65°*150°) / T212(75°*165°) / T304(75°*160°) / T402(80°*150°) / T502(150°*150°)		
Mechanical Data			
IP Rating	IP66		
IK Rating	IK08/IK09		
Housing	Die-casting aluminum ADC12		
Painting	Gray, Silver,Custom request		
Bracket	Adjustable from -5° to +15° , 5 ° per, Side and horizontal mounting up to 90°		
Mounting	Post top, side entry,Suitable for lamp post diameter Ø 60mm , depth 120mm		
Configuration Data			
Solar Panel Type	single side monocrystalline solar panel		
Solar Panel Voltage(W)	18V 45W	18V 45W	18V 45W
LiFePO4 Battery Capacity(AH)	12.8V 15AH	12.8V 30AH	12.8V 45AH
LiFePO4 Battery Capacity(WH)	192WH	384Wh	576Wh
Charing Time	4.5Hrs	9.0Hrs	13.5Hrs
Run Time(@full power)	5.7hrs	11.5hrs	17.2hrs
Battery Lifespan	>2000 times cycle		
Ambient Temperature	-10°C to 50°C (14°F to 122°F) , -20°C to 60°C (-4°F to 140°F) optional		
Storage Temperature	-20°C to 45°C (-4°F to 113°F)		
Control System	MPPT/PWM/Hybrid optional, custom IOT or remote control on request		
Maximum Autonomy	3-5 days	7-9 days	9-12 days
Others			
Lifespan	L90B10 - 100000 hrs, @Tq 25°C		
Warranty	3 years as standard (Warranty extension to 5 years on request)		
Certification	CE/FCC/RoHs,For other certificates please request		
Product Size	748*414.9*119mm (29.45*16.33*4.7")		
Net Weight	12.5kg(27.56 lbs)	14.5kg(31.97 lbs)	15.5kg(34.17 lbs)
Carton Size	850*515*225mm (33.46*20.28*8.86")		
Gross Weight	14.5kg(31.97 lbs)	16.5kg(36.38 lbs)	17.5kg(38.58 lbs)
Recommend Installation Height	5-7m	5-7m	5-7m
Accessories(standard)	Microwave Sensor, Level Bubble, Charging Port, Switch, Breather Vent, Safety Rope		
Accessories(optional)	PIR Sensor, lot-4G control, Hybrid Grid Power , Bird Spike		
Application Field	Road & street, residential area, garden, parks, parking lot, industrial and commercial parks, railway & station side, riverside & jogging track		
Storage Instruction	For long-term storage, it is advisable to first fully charge the battery, then discharge it for 2 to 3 hours. This should be done every 3 months to prevent battery damage.		
Important Note!	The provided information is solely for reference; the official measurement report holds higher authority.		

Parameter Table

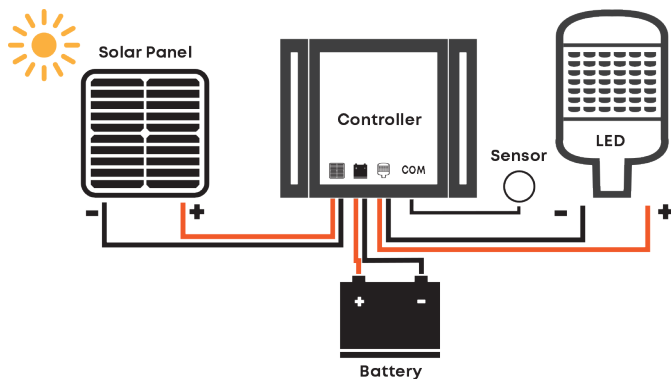
Specification				
Model	AOK-60WSAF-L	AOK-60WSAF-M	AOK-60WSAF-H	AOK-80WSAF
Power	60W	60W	60W	80W
Control Option	Photocell ,Dimming,sensor, Zhaga Zigbee iot/4G iot			
Grid Hybrid Power Solution(optional) Driver	Inventronics/MOSO			
Work Mode	2H-Detected 100%, None 30% ;3H-Detected 70%, None 30% ;3H-Detected 50%, None 20%; 4H-Detected 30%, None 10%			
Photometric Data				
LED Manufacturer	A 5050			
Lens	Standard: PC+glass; Optionl: PC			
Efficacy(lm/w)	200lm/W	200lm/W	200lm/W	195lm/W
Luminous Flux(lm)	12000lm	12000lm	12000lm	15600lm
ULOR	= 0%, @ Luminaire inclination 0°			
CCT	3000K, 4000K, 5000K, 5700K, 6500K			
CRI	70Ra			
Beam Angle	Standard (PC+ Glass Solution): T252 (85°160°)/T312 (85°155°)/T502 (150°150°) Option 1 (PC Lens Solution): T302 (80°155°)/T402 (90°150°)/T502 (160°) Option 2 (PC Lens Solution-Adjustable Module): T203(65°*150°) / T212(75°*165°) / T304(75°*160°) / T402(80°*150°) / T502(150°*150°)			
Mechanical Data				
IP Rating	IP66			
IK Rating	IK08/IK09			
Housing	Die-casting aluminum ADC12			
Painting	Gray, Silver,Custom request			
Bracket	Adjustable from -5° to +15°, 5 ° per, Side and horizontal mounting up to 90°			
Mounting	Post top, side entry,Suitable for lamp post diameter Ø 60mm , depth 120mm			
Configuration Data				
Solar Panel Type	single side monocrystalline solar panel			
Solar Panel Voltage(W)	18V 75W	18V 75W	18V 75W	18V 110W
LiFePO4 Battery Capacity(AH)	12.8V 30AH	12.8V 60AH	12.8V 75AH	12.8V 75AH
LiFePO4 Battery Capacity(WH)	384Wh	768Wh	960Wh	960Wh
Charing Time	5.4Hrs	10.8Hrs	13.5Hrs	9.2Hrs
Run Time(@full power)	5.7hrs	11.5hrs	14.4hrs	10.8hrs
Battery Lifespan	>2000 times cycle			
Ambient Temperature	-10°C to 50°C (14°F to 122°F) , -20°C to 60°C (-4°F to 140°F) optional			
Storage Temperature	-20°C to 45°C (-4°F to 113°F)			
Control System	MPPT/PWM/Hybrid optional, custom IOT or remote control on request			
Maximum Autonomy	3-5 days	7-9 days	9-12 days	7-9 days
Others				
Lifespan	L90B10 - 100000 hrs, @Tq 25°C			
Warranty	3 years as standard (Warranty extension to 5 years on request)			
Certification	CE/FCC/RoHs,For other certificates please request			
Product Size	932*457*119mm (36.7*18*4.7")			1332.5*457*119mm (52.46*17.99*4.69")
Net Weight	17kg(37.48 lbs)	18kg(39.68 lbs)	20kg(44.09 lbs)	23kg(50.71 lbs)
Carton Size	1015*540*205mm (40.75*22.1*8.86")			1415.5*540*205mm (55.73*21.26*8.07")
Gross Weight	19.5kg(42.99 lbs)	20.5kg(45.19 lbs)	22.5kg(49.6 lbs)	25.5kg(56.22 lbs)
Recommend Installation Height	6-8m	6-8m	6-8m	6-8m
Accessories(standard)	Microwave Sensor, Level Bubble, Charging Port, Switch, Breather Vent, Safety Rope			
Accessories(optional)	PIR Sensor, Iot-4G control, Hybrid Grid Power , Bird Spike			
Application Field	Road & street, residential area, garden, parks, parking lot, industrial and commercial parks, railway & station side, riverside & jogging track			
Storage Instruction	For long-term storage, it is advisable to first fully charge the battery, then discharge it for 2 to 3 hours. This should be done every 3 months to prevent battery damage.			
Important Note!	The provided information is solely for reference; the official measurement report holds higher authority.			

Ordering Information

AOK							
MODEL	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	HOUSING
30WSAF-L	DC=Solar	A5=5050	00=Without Sensor	3070=3000K 70CRI	Standard	A=Post Top	GR=Gray
30WSAF-M	HB=Hybrid		PIR=PIR Sensor	4070=4000K 70CRI	T252 (85°160°)	B=Side Entry	SI=Silver
30WSAF-H			MS=Microwave Sensor	5070=5000K 70CRI	T312 (85°155°)		Custom request
60WSAF-L				5770=5700K 70CRI	T502 (150°150°)		
60WSAF-M				6570=6500K 70CRI			
60WSAF-H					Option 1		
80WSAF					T302 (80°155°)		
					T402 (90°150°)		
					T502 (160°)		
					Option 2		
					T203 (65°150°)		
					T212 (75°165°)		
					T304 (75°160°)		
					T402 (80°150°)		
					T502 (150°150°)		

* L = Low capacity, M = Medium capacity, H = High capacity

Working Way

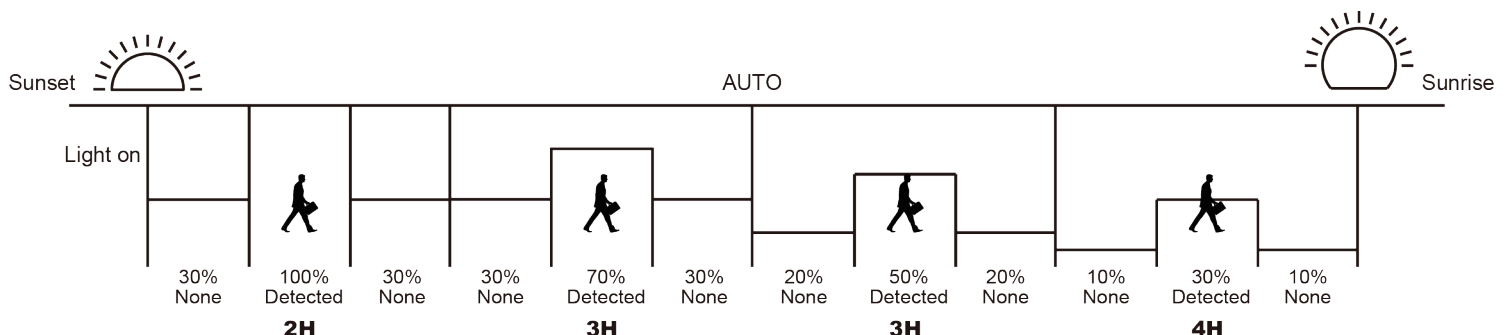


Solar panels receive sunlight during the day to generate electricity, which is charged by a controller to a battery; When the solar panel voltage is lower than the set value (rated 5V), the controller will stop charging and drive the LED to emit light.

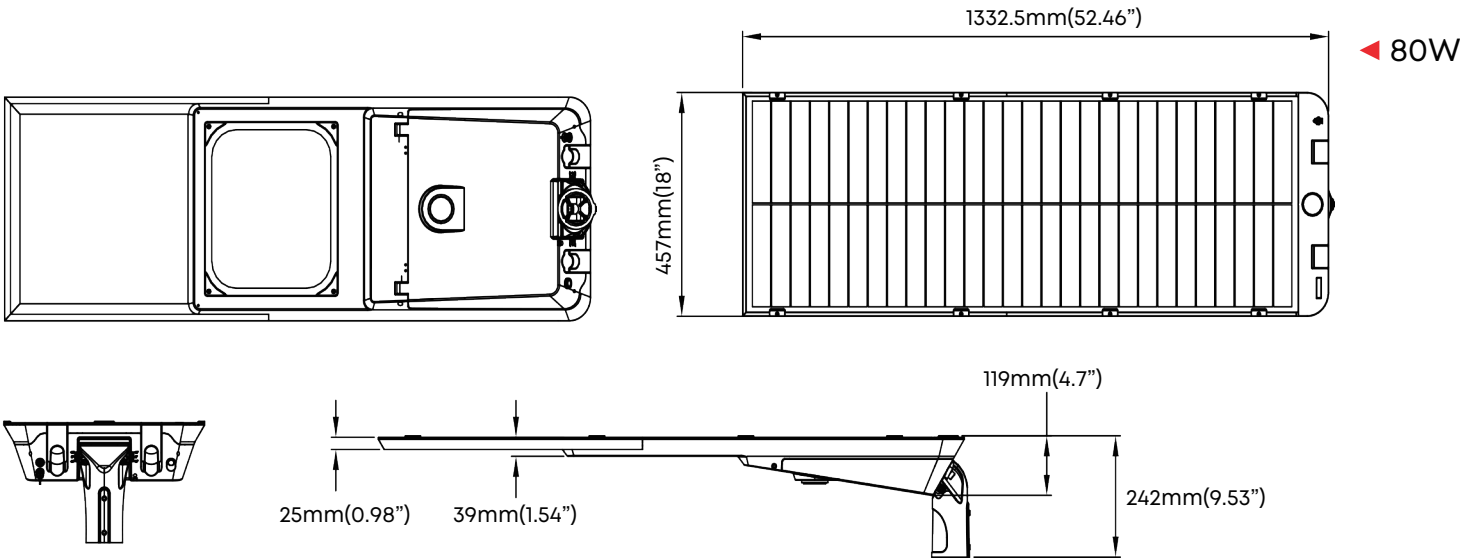
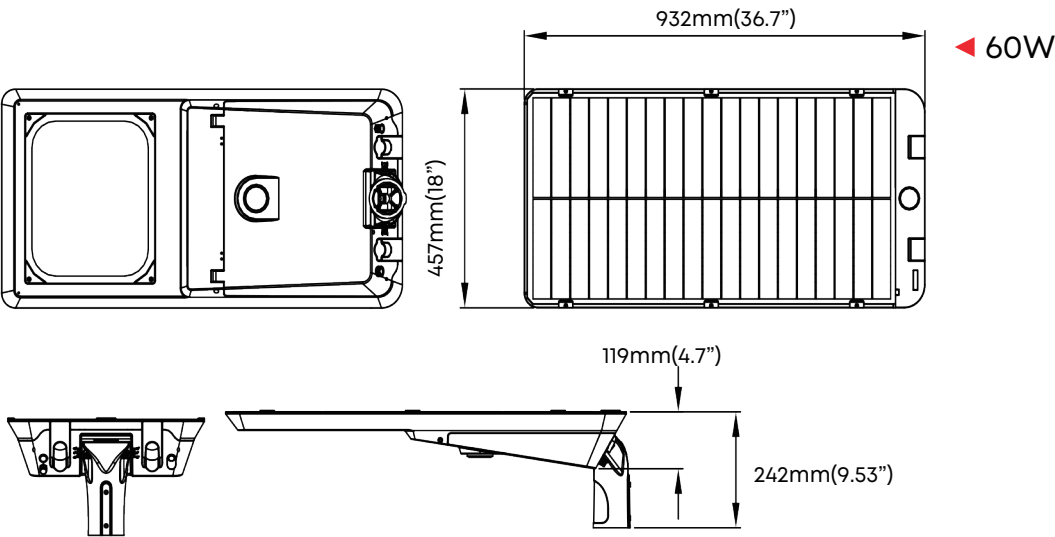
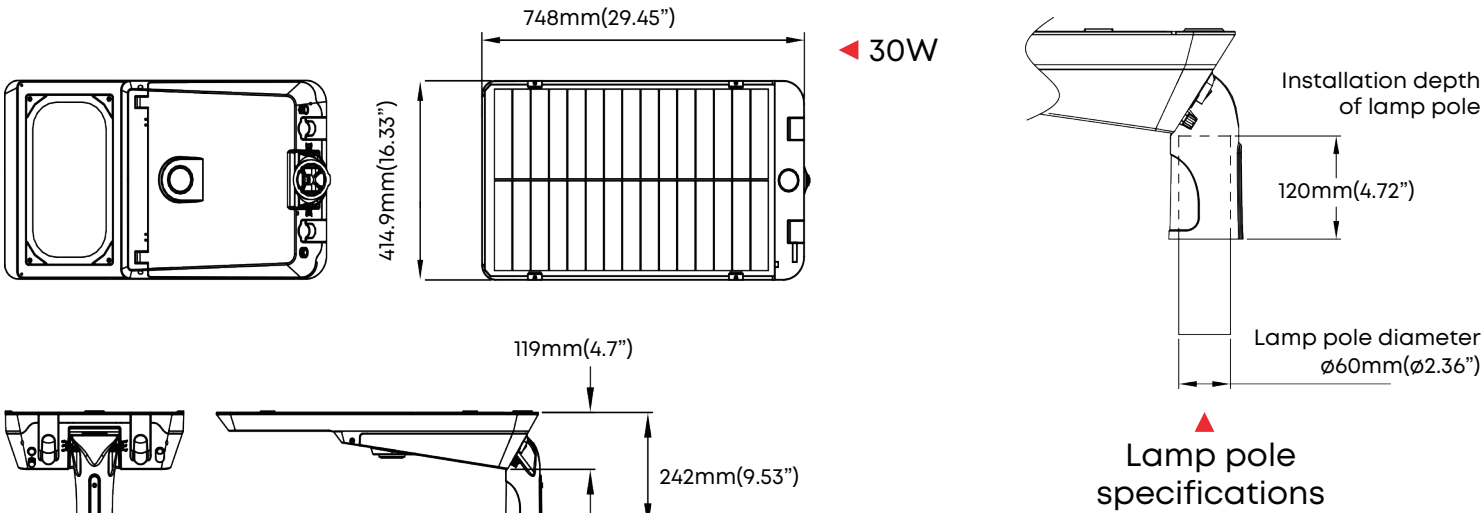
When the battery voltage is lower than the set value, the power supply will switch to mains power, and when the voltage is higher than the set value, it will switch to battery power. The standard configuration does not include mains complementary function.

Autonomy Control Reference

2H-Detected 100%, None 30%; 3H-Detected 70%, None 30%;
3H-Detected 50%, None 20%; 4H-Detected 30%, None 10%;



Dimension





Innovative & Tailored Lighting Solutions for **Success**



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