

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



All in One Solar Street Light

Power: 30W/60W



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)



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**



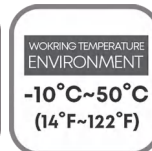
**Long Lifespan
Li-ion Battery & MPPT**



**Tool-less
Maintenance**



**Intelligent Lighting
Control**



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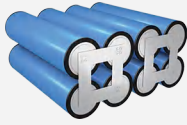
Key Components



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.

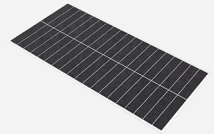
05



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)

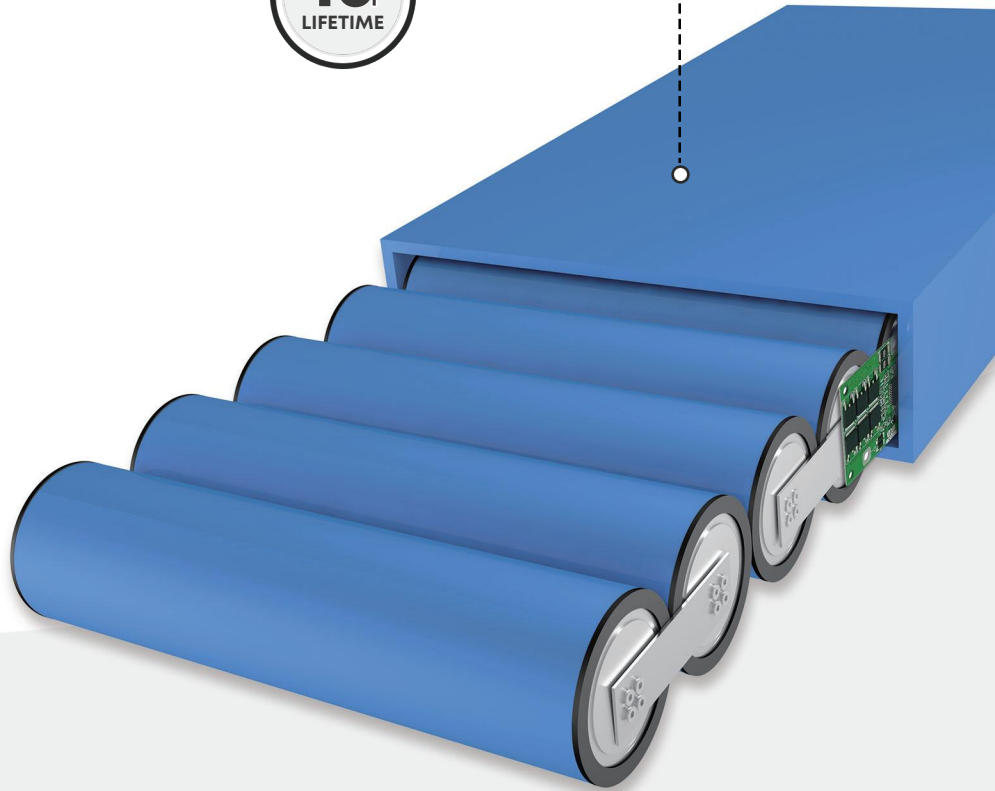
-20°C to 60°C (-4°F to 140°F) optional



LIFESPAN UP TO **5000 cycles**

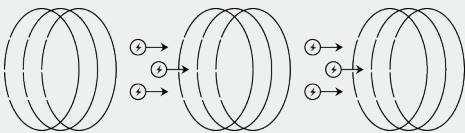
Final interpretation rights regarding operational achievement conditions are vested solely in AOK.

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.

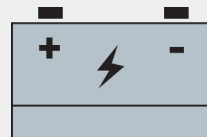


Over & Under Current - Overload

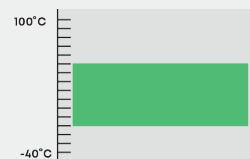
Over & Under Voltage - Over/Under Charge

Temperature Management

LiFePO₄

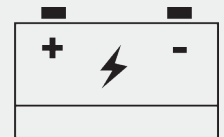


>2000 cycles

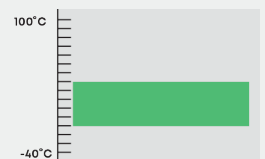


-10°C-50°C

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

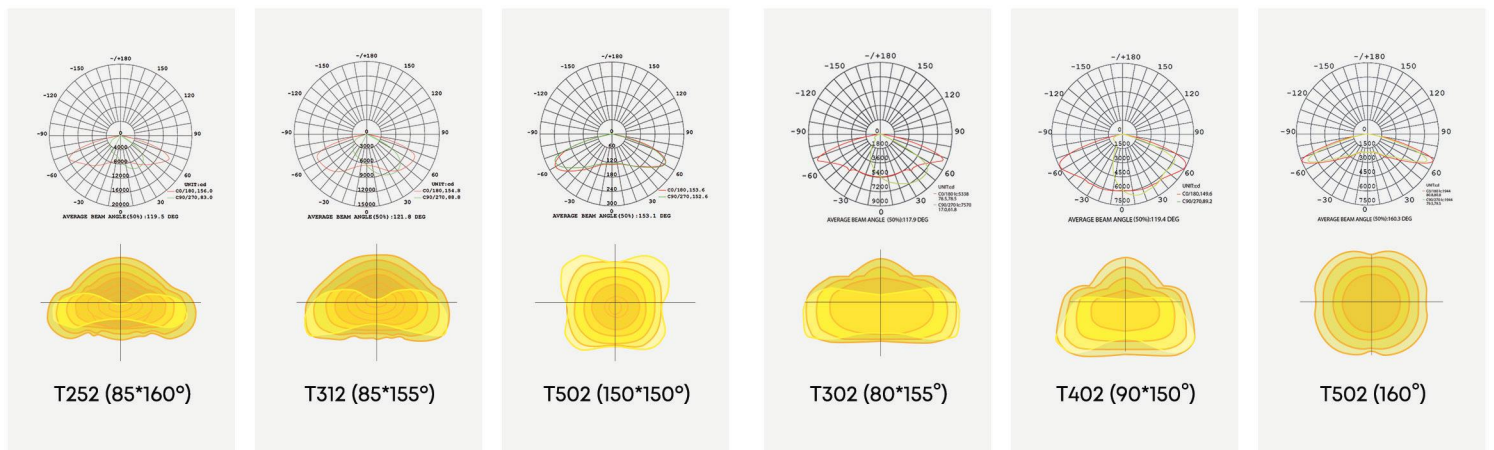


Long Lifespan

Multiple Distribution Options

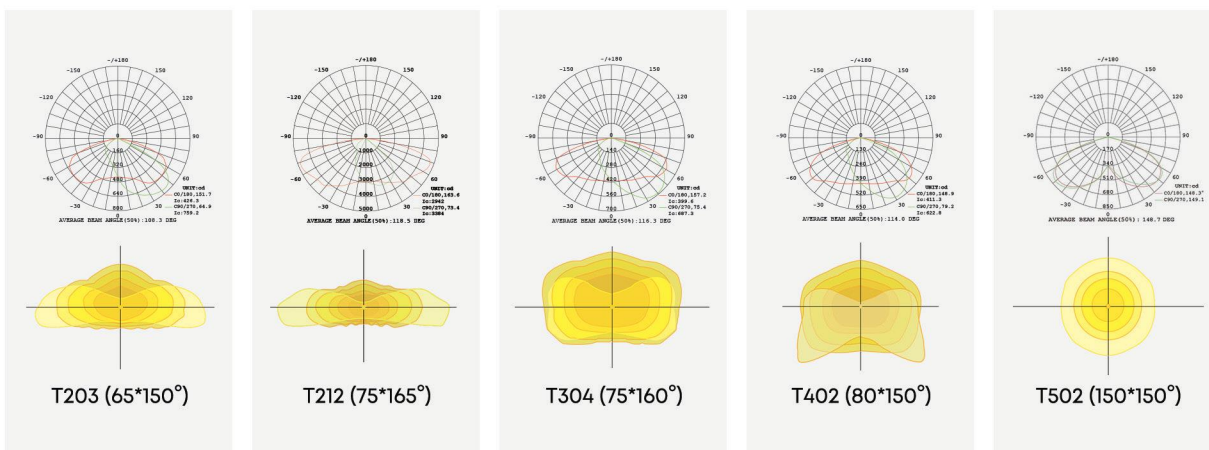
General solution, accurate light distribution design, flexible to match the project requirements:

> Standard: PC+ Glass Solution



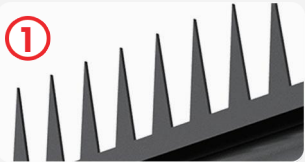
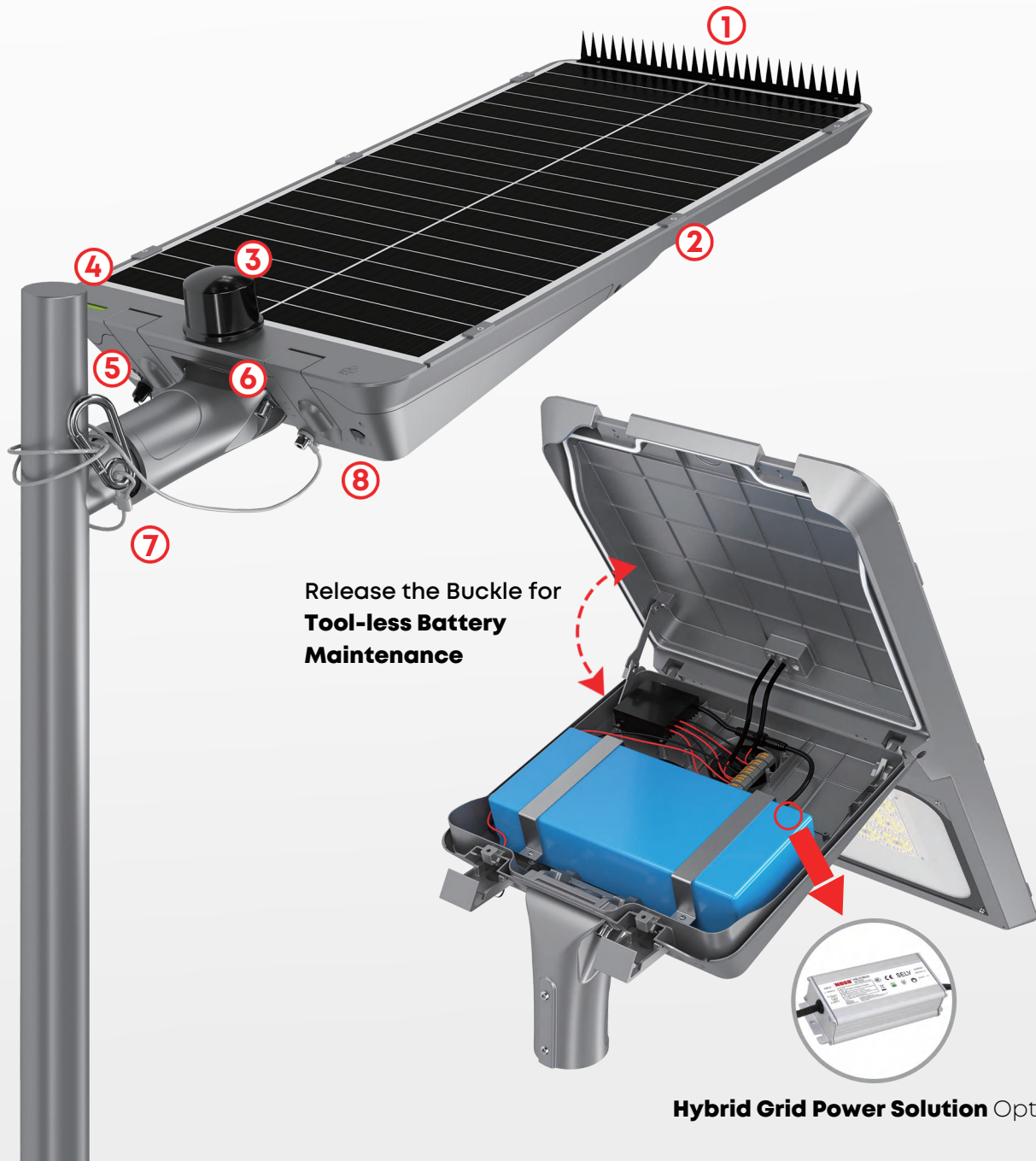
> Option 1: PC Lens Solution

> Option 2: PC Lens Solution (Adjustable Module)

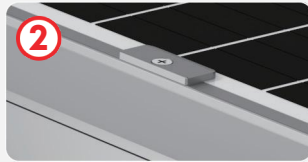


* Due to working temperature and CCT/CRI adjustments, actual photometric values may vary slightly. Please consult the measured IES file for accurate data. The above information is for reference purposes only.

Construction Features



1 Bird Spike Optional



2 Dustproof Design



3 Zhaga Sensor Optional



4 With Level Bubble



5 Switch & Charging Port



6 Bracket Adjustable (-15° to +15°)



7 Safety Rope



8 Breather Vent

Smart Control Ready

For Efficient Management

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, trouble-shoot 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

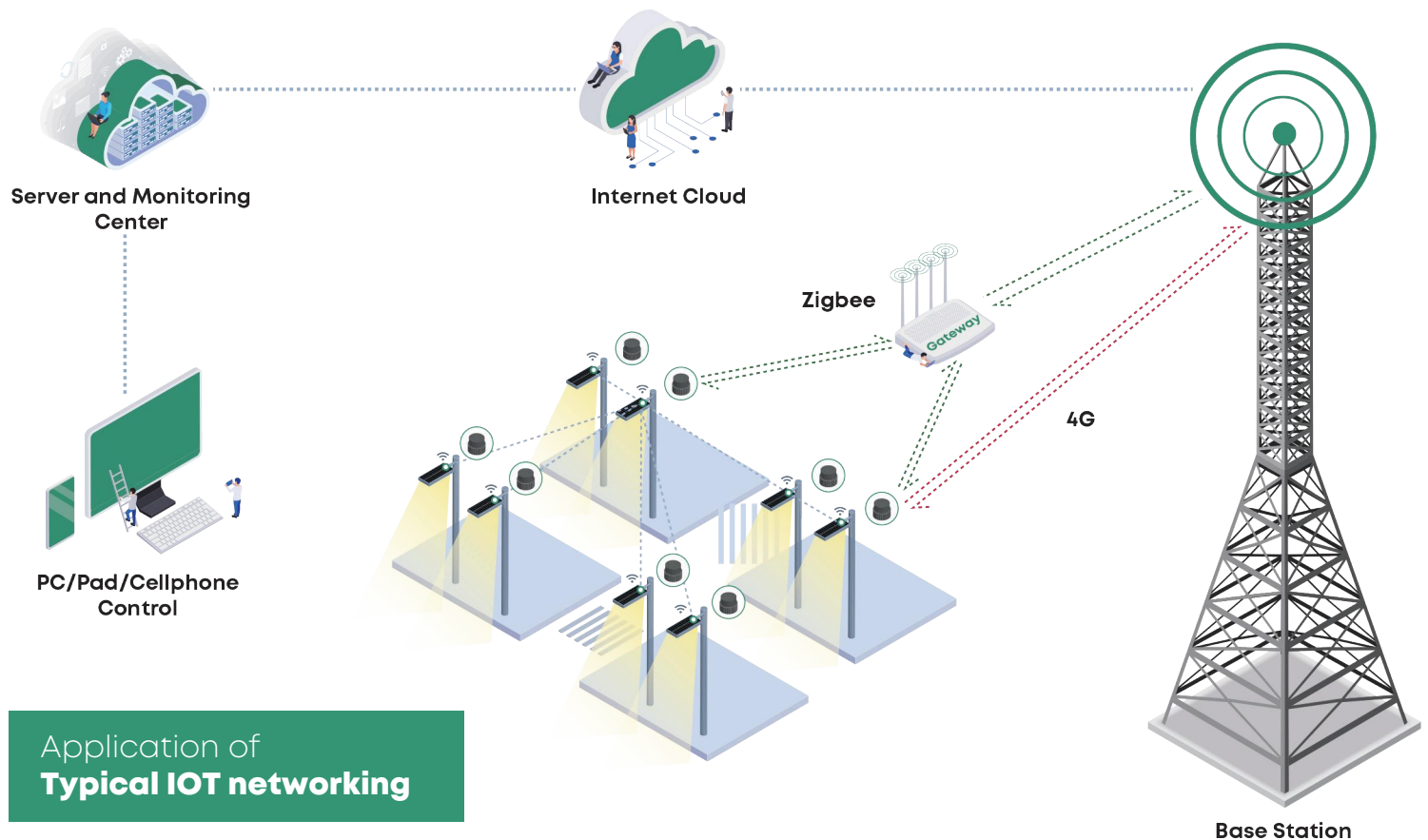
Support remote monitoring and remote control through PC web and mobile APP.



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





main road & highway



secondary roads



parking lot & surrounding



residential & area



riverside & jogging track

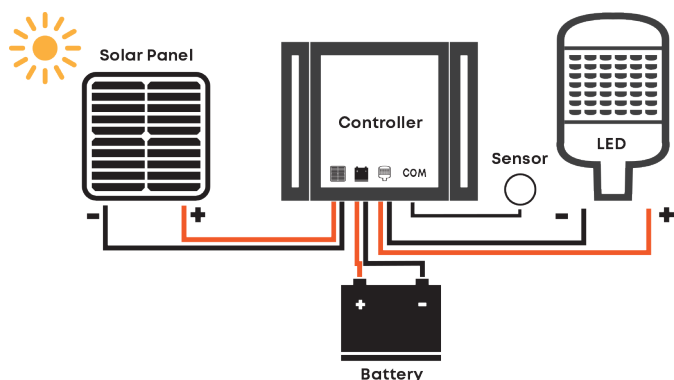
Parameter Table

Specification						
Model	AOK-30WSAF-L	AOK-30WSAF-M	AOK-30WSAF-H	AOK-60WSAF-L	AOK-60WSAF-M	AOK-60WSAF-H
Power	30W	30W	30W	60W	60W	60W
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	200lm/W	200lm/W	200lm/W
Luminous Flux(lm)	6000lm	6000lm	6000lm	12000lm	12000lm	12000lm
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 -15° 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	18V 75W	18V 75W	18V 75W
LiFePO4 Battery Capacity(AH)	12.8V 15AH	12.8V 30AH	12.8V 45AH	12.8V 30AH	12.8V 60AH	12.8V 75AH
LiFePO4 Battery Capacity(WH)	192WH	384Wh	576Wh	384Wh	768Wh	960Wh
Charing Time	4.5Hrs	9.0Hrs	13.5Hrs	5.4Hrs	10.8Hrs	13.5Hrs
Run Time(@full power)	5.7hrs	11.5hrs	17.2hrs	5.7hrs	11.5hrs	14.4hrs
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	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*118.7mm (29.45*16.34*4.67")			931.6*456.9*118.7mm (36.68*17.99*4.67")		
Net Weight	12.5kg	14.5kg	15.5kg	17kg	18kg	20kg
Carton Size	850*515*225mm (33.46*20.28*8.86")			1035*560*225mm (40.75*22.1*8.86")		
Gross Weight	14.5kg	16.5kg	17.5kg	19.5kg	20.5kg	22.5kg
Recommend Installation Height	5-7m	5-7m	5-7m	6-8m	6-8m	6-8m
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.					

Ordering Information

AOK									
MODEL	TYPE	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			
						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°)			

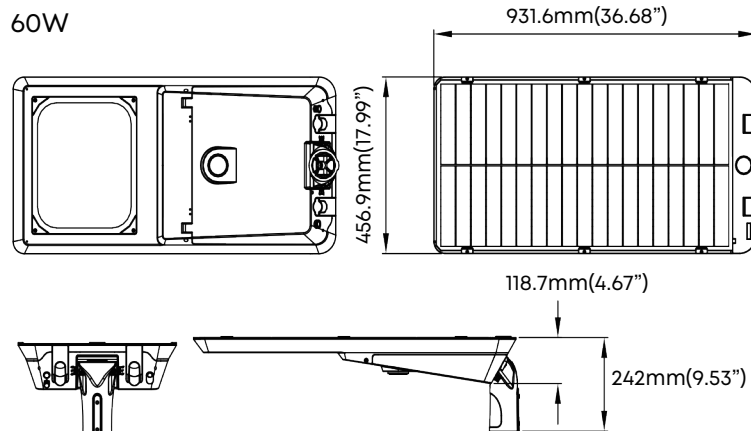
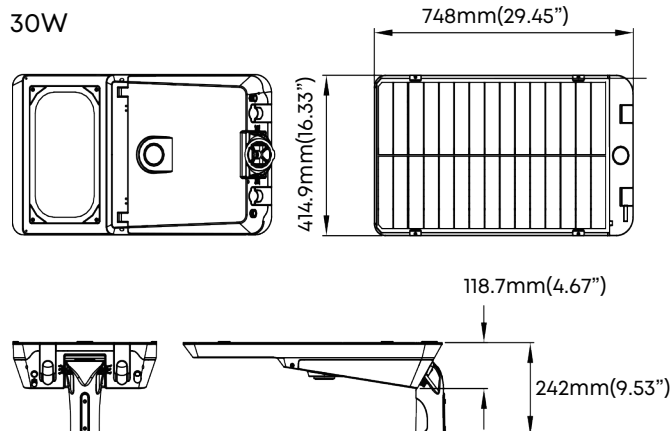
Working Way



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.

Dimension





Quality, Honesty, Service and Innovation

Innovative & Tailored Lighting Solutions for **Success**



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

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