





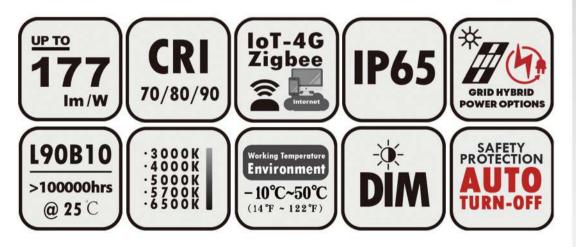
Better Performance Starts From Better Lighting www.aokledlight.com

### > Features of SL Series

Outdoor solar lighting systems employ solar cells that transform sunlight into electricity, which is subsequently stored in batteries for nocturnal usage. Their utilization doesn't lead to an escalation in your electricity costs.

 The SL Solar LED Street Light embodies a conventional street light design, powered by solar energy, characterized by a discreet profile. It includes dimming capabilities and offers intelligent IOT control functionality.

- Deep cycle battery, charge and discharge over 2000 times.
- · Continuously work 2-3 rainy days in intelligent mode.
- Die-cast aluminum fixture housing ;
- UV stabilized polyester powder paint finish for durability and corrosion resistance;
- Mounting options: side entry installation;
- Streamlined design to reduce wind resistance;
- Reserved sensor location for ZigBee;
- Powdering / PC + Tempered glass cover.





#### KEY ADVANTAGES Monocrystalline Silicon Solar Panel 25 years lifespan ensures durability Solar Panel Integrated with Battery Box Combining design for seamless integration, facilitating straightforward maintenance. High Lumen Output High-performance LEDs efficacy >177lm/W Adjustable & Reinforced Bracket Robust shock resistance and the flexibility for panel alignment with sunlight through free adjustments. Long Lifespan Li-ion Battery & MPPT 0 Intelligent temperature control guarantees prolonged operation and safeguards battery lifespan Grid Hybrid Solution Optional Grid Hybrid Power optional, increased adaptability to fulfill project demands Intelligent Lighting Control Smart time-based lighting control, aligning with lighting

requirements flexibly.







Adjustable Bracket Aim to the Direction of Sunlight

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### > Photometrics Design



Lumileds 3030/5050 LED chip creates a first-class light source. By choosing it, single lumen efficacy >1771m/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.

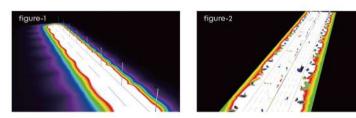


Figure-1: Example of rural branch road Figure-2: Example of mian road or avenue

Planning and analysis of street lights can be done by using lighting simulation & design software, which allows the lighting effect a more intuitive display. It uses rendering, the process of generating an image from a model, by means of computer programs resulting in different tools for measuring the simulated light levels.

# Distribution TYPE II (T201) TYPE II (T211) TYPE II (T221) TYPE III (T301) TYPE III (T311) TYPE III (T321) TYPE IV (T411)



## > Application Reference

- Road & street lighting
- Residential area lighting
  Garden, parks & perimeter lighting
- Parking lot lighting
- Industrial and commercial park lighting
- Railway & station side lighting
  Riverside & jogging track lighting



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ons are subject to change without notice



### > 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**

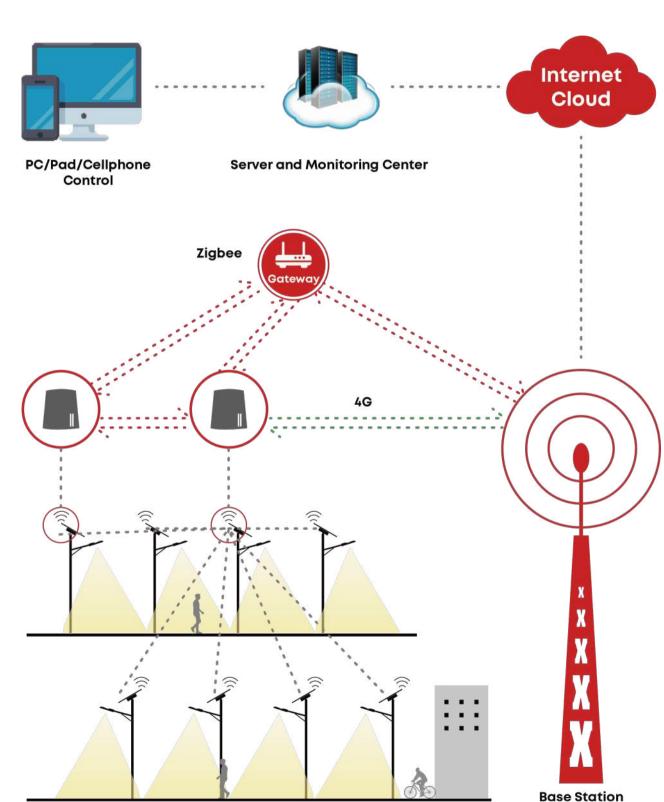
Based on the massive data of the platform, street light fault analysis and energy consumption analysis can be carried out to provide a basis for the maintenance of street light equipment to save energy and reduce consumption.

#### APPLICATION OF TYPICAL IOT NETWORKING





Control



### Parameter Table

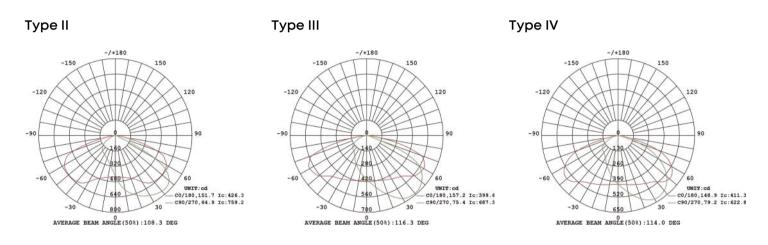
#### Electrical Data

Electrical Data									
Model		AOK-20WsL	AOK-40WsL	AOK-60WsL	AOK-80WsL	AOK-100WsL			
Power		20W	40W	60W	80W	100W			
Input voltage				12-24V DC					
THD				<20%					
PF				>0.95					
Control Option				Dimming, Zigbee/4G					
Photometric Data									
LED Manufacturer				LUMILEDS					
LED model				Lumileds 3030/Lumileds 5050					
Lens		Polycarbonate							
	3030	3520lm	6640lm	10020lm	13360m	16700lm			
uminous flux(Im, Std. Dev. ±5%)	5050	3540lm	6680lm	10020lm	13440lm	16800lm			
Efficacy(Im/W, Std. Dev. ±5%)		176lm/W	166lm/W	167lm/W	167lm/W	167lm/W			
	5050	177lm/W	167lm/W	168lm/W	168lm/W	168lm/W			
ULOR				= 0%, @ Luminaire inclination 0°					
CCT			3	000K, 4000K, 5000K, 5700K, 6500	К				
CRI		70Ra, 80Ra, 90Ra optional							
Beam angle				Type II/Type III/Type IV/Type V					
Mechanical Data									
IP Rating			IP	65, according to standard EN 6052	9				
SCx(Fixture)			Front: 0.014 m²; Side: 0.0214 m² $$		Front: 0.0219 m	<sup>2</sup> ; Side: 0.035 m <sup>2</sup>			
		nt: 0.45m²;	Front: 0.71m <sup>2</sup> ;	Front: 1.14m <sup>2</sup> ;	Front: 1.59m <sup>2</sup> ;	Front: 1.59m <sup>2</sup> ;			
SCx (Solar Panel)		it-side: 0.32m <sup>2</sup> ;	Front-side: 0.47m <sup>2</sup> ;	Front-side: 0.73m <sup>2</sup> ;	Front-side: 0.99m <sup>2</sup> ;	Front-side: 0.99m <sup>2</sup> ;			
	Si	ide: 0.08m²;	Side: 0.09m <sup>2</sup> ;	Side: 0.09m <sup>2</sup> ;	Side: 0.12m <sup>2</sup> ;	Side: 0.12m <sup>2</sup> ;			
Housing				y-duty die-cast aluminum (EN AC-4)					
Surface treatment		Anti-UV thermos	setting polyester / 80 micron epox	y primer + Anti-UV thermosetting	oolyester (for extremely corrosive	environments).			
Painting			C:-4	Silver gray, Customized Color	al)				
Mounting			510	e entry (fixture) Post top(Solar pan	(1)				
Configuration Data									
Photovoltaic panel				Single crystal photovoltaic panel					
Solar Panel		18V/72W	18V/130W	36V/200W	36V/280W	36V/280W			
Li-on Battery		691.2WH	1305.6WH	1996.8WH	2611.2WH	2611.2WH			
	1	12.8V 54AH	12.8V 102AH	25.6V 78AH	25.6V 102AH	25.6V 102AH			
Charing Time				8hrs					
Battery lifespan				>2000 times cycle					
Run Time(@full power)				30hrs					
Ambient Temperature				-10°C to 50°C (-14°F to 122°F)					
Storage Temperature		-10 C to 35 C (4° F to 112° F)							
Charing Temperature			-20 C to 45°C (32°F to 113°F)						
Control system		MPPT intelligent controller							
Maximum Autonomy				Operate under 3-5 rainy days					
			200/ 4000		brs (Max)				
Motion Sensor Mode         30%-100% 102hrs (Max), 20%-80% 155hrs (Max)									
Constant Mode(Full Charge)			100	0% 30hrs, 70% 45hrs, 40% 78	nrs				
Lifespan				L90B10 - 100000hrs, @Tq 25°C					
Others Lifespan Warranty Certification				years in standard, 5 years optiona					
Lifespan Warranty Certification	818	*493*468mm/				1500*990*593mm/			
Lifespan Warranty Certification		*493*468mm / 19.4*18.4 inches	CE RoHS (The	years in standard, 5 years optiona company is ISO 9001 and ISO 1400	01 certified.)	1500*990*593mm / 59.1*39.0*23.3 inches			
ifespan Warranty Certification Product Size (Solar panel)	32.2*1		CE RoHS (The 1003*653*508mm /	years in standard, 5 years optiona company is ISO 9001 and ISO 1400 1613*653*508mm /	01 certified.) 1500*990*593mm /				
ifespan Warranty Certification Product Size (Solar panel)	32.2*1 25.1	19.4*18.4 inches	CE RoHS (The 1003*653*508mm / 39.5*25.7*20 inches	years in standard, 5 years optiona company is ISO 9001 and ISO 1400 1613*653*508mm / 63.5*25.7*20 inches	01 certified.) 1500*990*593mm / 59.1*39.0*23.3 inches	59.1*39.0*23.3 inches 73kg / 160.94 lbs			
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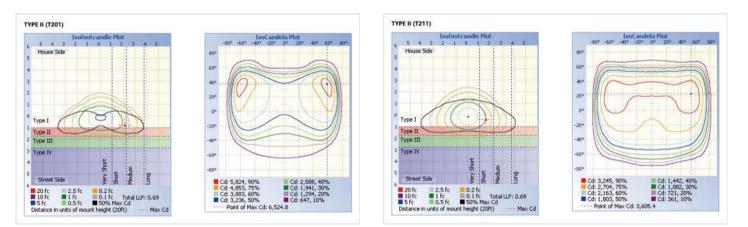
### **Ordering Information**

AOK						
WATTS	VOLTAGE	LED CHIPS	CCT&CRI	DISTRIBUTION	MOUNT	OPTION
20WsL	NV1=12.8V DC	L3=LUMILEDS 3030	3070=3000K 70CRI	T2=TYPE II	A=Top Post	Intelligent Control
40WsL	NV2=25.6V DC	L5=LUMILEDS 5050	4070=4000K 70CRI	T3=TYPE III		
60WsL			5070=5000K 70CRI	T4=TYPE IV		
80WsL			5770=5700K 70CRI	T5=TYPE V		
100WsL			6570=6500K 70CRI			
			3080=3000K 80CRI			
			4080=4000K 80CRI			
			5080=5000K 80CRI			
			5780=5700K 80CRI			
			6580=6500K 80CRI			

#### Photometry



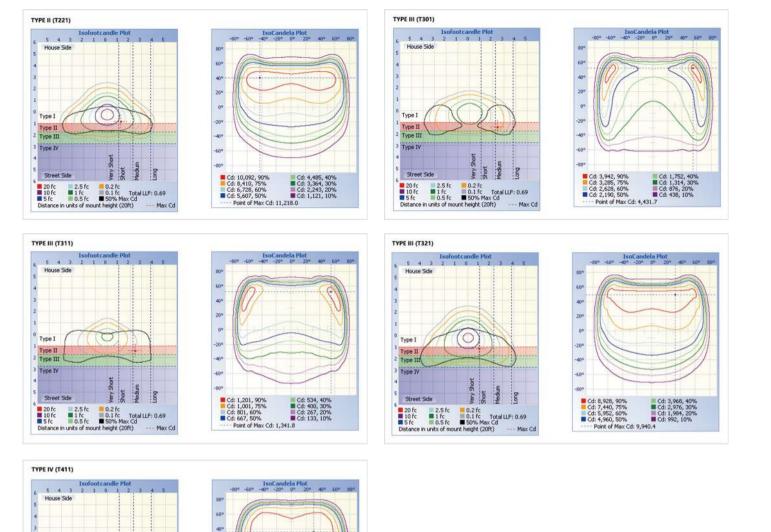
#### Illuminance Diagram

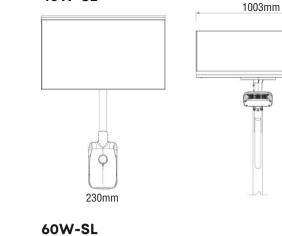


#### SL Series Specification Sheet

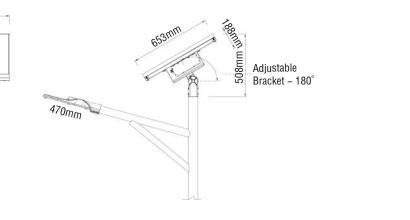
\*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.



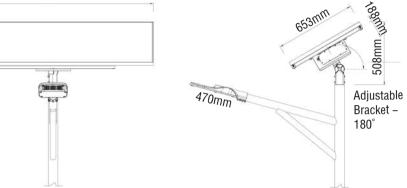




40W-SL



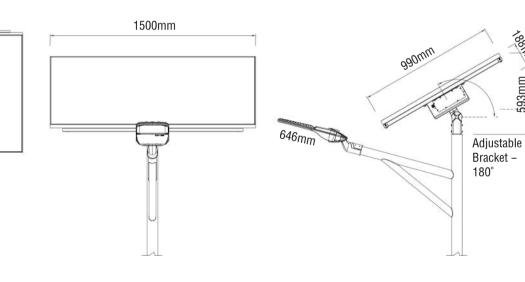
1613mm



80W-100W-SL

¢

230mm



Accessories

No

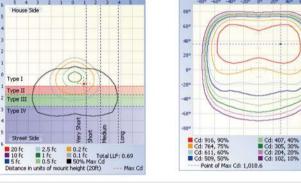
240mm





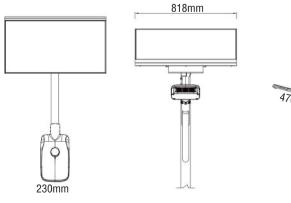
MPPT 4G/Zigbee-IoT

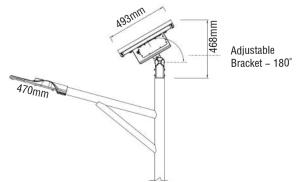
Programable Remote Control (optional)



### Dimensions

20W-SL





#### SL Series Specification Sheet

\*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

#### Caution:

Accessories need to be ordered separately.

As the products are upgraded, the accessories may differ from those described in the pictures.

Please consult with our sales team for updated details and order separately.







Illuminate Your Future



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

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Manufacturing: Building 1 & 4, St. George's Science and Technology Industrial Park, Shajing Street, Shenzhen, China, 518124. Fuzhou HQ: Room 301, Yujing Business Center Zone 1, No. 12 Baihuazhou road, Cangshan district, Fuzhou, China, 350007 NorthAmerica HQ: 18541 E Gale Ave, City of Industry, CA91748 USA

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