







# > Features of SL Series

Outdoor solar lighting systems use solar cells which convert sunlight into electricity. Electricity is stored in batteries for use at night. Using them won't increase your electric bill.

• SL Solar LED Street Light features a typical street light that is powered by solar energy, low profile design, with photocell sensor , timing, dimming, intelligent power saving, morning light, microwave sensor available.

- 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 easy installation;
- Powdering / PC + Tempered glass cover.



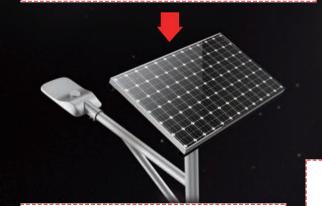


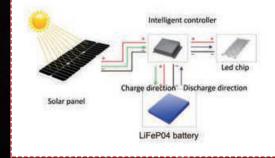
## **Solar Panel Integrated** with Battery Box

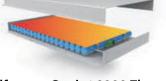


Lifespan

Integral Monocrystalline **Silicon Solar Panel** 







#### Lifespan Cycle ≥2000 Times Intelligent Temperature Control



Adjustable Bracket Aim to the Direction of Sunlight

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# > Photometrics Design

Lumen efficiency >177lm/W achieve higher illumination

High Long Less Lifespan Efficiency Calorific Value

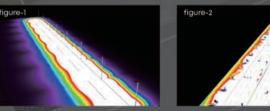


Lumileds 3030/5050 LED chip creates a first-class light source. By choosing it, single lumen efficacy >177lm/W, with the aluminum lamp base and sealed lens, with its excellent heat dissipation, it is as if the LED chip has been placed in a sealed unit. Thus it maintains high brightness levels with very 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.

Low

Light

Decay



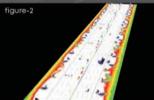


Figure-1: Example of rural branch road Figure-2: Example of mian road or avenue

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.





- Road lighting
  Area lighting
  Perimeter lighting

specifications are subject to change without notice.



# > Application Reference

- Road lighting Area lighting Perimeter lighting

specifications are subject to change without notice.



# > Smart City Starts with Smart Lighting

#### AUTONOMY CONTROL REFERENCE

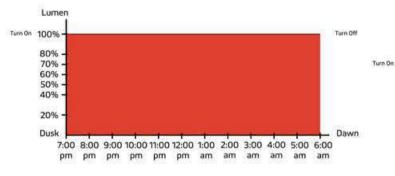
30%~100% MOTION SENSOR MODE

Constant 30% brightness (turns on at dusk, turns off at dawn):

100% brightness turns on for 2 minutes when motion is

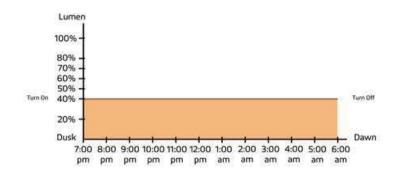


100% CONSTANT MODE 100% brightness from dusk to dawn.



40% CONSTANT MODE

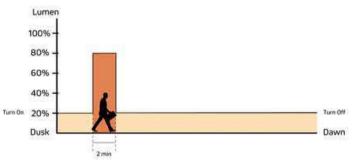
40% brightness from dusk to dawn.



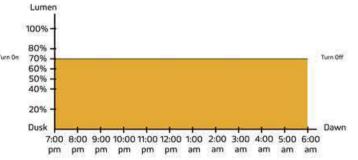
20%~80% MOTION SENSOR MODE

Constant 20% brightness (turns on at dusk, turns off at dawn):

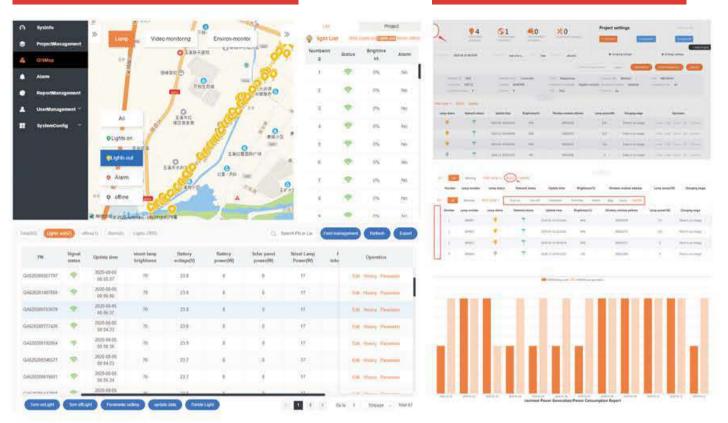
80% brightness turns on for 2 minutes when motion is



70% CONSTANT MODE 70% brightness from dusk to dawn.



#### SMART LIGHTING CONTROL SYSTEM



• 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.

more than 99%.

#### **APP CONTROL**







**Remote monitoring** real time monitoring

**Automatic fault** alarm

With wireless communi-Real-time monitoring of cation function, through the intelligent management system of solar street light and wireless module, have remote monitoring and real-time nonitoring. fault automatic alarm.

Support remote switch on/off dimmer and battery, load parameter modification.

**Remote control** 

solar panel voltage, current, power, battery charaina and discharaing current, voltage, load working state, controller working state data, and

specifications are subject to change without notice.



**DATA & PROJECT MANAGEMENT** 



# > Application of Typical Networking of Smart Street Light(optional)

# 🔆 Strategy Control

By installing the node of the street light controller on the ambient light sensor, electric energy metering unit to collect to the street light power (voltage, current, power), and the ambient light conditions, according to the administrator deployment strategy to mobilize installed on the street light controller of the automatic control system to control the street light switch, adjust brightness, color temperature adjustment, etc.;

# 🔁 Gateway Control

The Lora Light wireless system with strong anti-interference ability is adopted in the wireless transmission unit of the street light controller to realize the communication between nodes and gateways. The data of various sensors on the node street lamp controller is sent back to the gateway, and the control command of the gateway is also sent to the node street light controller.

### 👛 Cloud Platform

The gateway controller transmits the street light control information of all nodes under the gateway to the cloud platform through GPRS/3G/4G/NBIOT (optional) wireless mode, and at the same time sends the instructions of the cloud platform to the street light controller of each node.

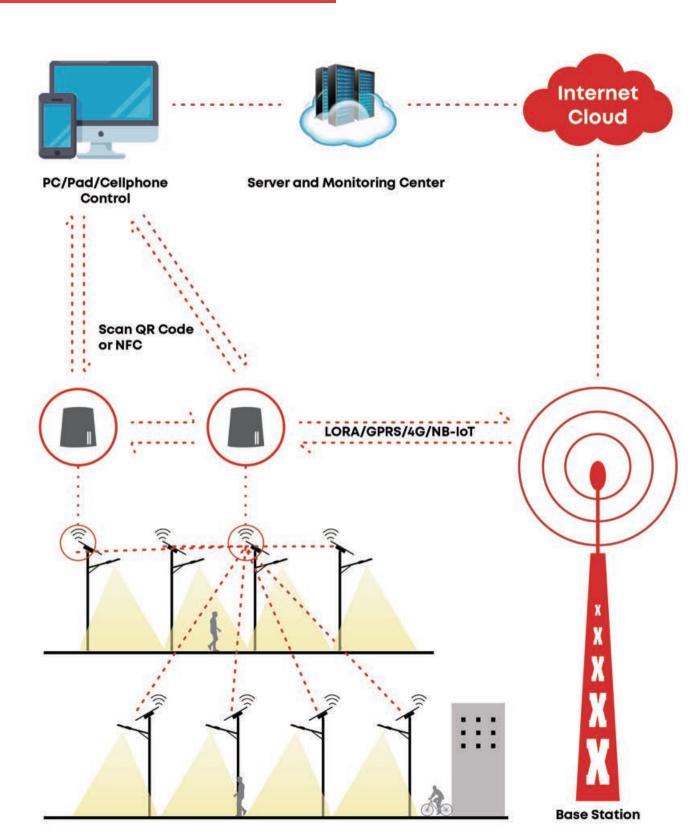
## Controller GPRS/NB-IoT Inside



• Built-in IoT module (GPRS/ NB-IOT)

- Adopt Moving Track MPPT maximum power tracking technology, with higher tracking efficiency and faster speed;
- 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.

#### **APPLICATION OF TYPICAL IOT NETWORKING**



# Parameter Table

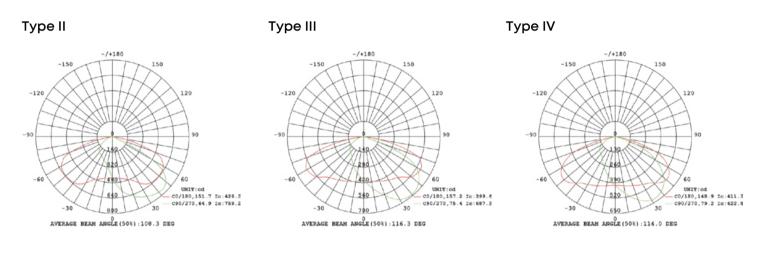
#### **Electrical Data**

Model		AOK-20WsL	AOK-40WsL	AOK-60WsL	AOK-80Ws L	AOK-100WsL			
Pow er		20W	40W	60W	80W	100W			
Control Option		Photocell sen	isor, timing, dimming, intelligen	t pow er saving, microw ave s	ensor. LoRa, NB-loT Smart Lig	ghting Control			
Driver brand	Meanwell								
Surge Protection				4kV optional					
Photometric Data									
				LUMILEDS					
LED Manufacturer									
LED model		Lumileds 3030/Lumileds 5050							
Lens	Polycarbonate								
Luminous flux/Im Ctd Dov (20/)	3030	3520lm	6640lm	10020lm	13360m	16700lm			
Luminous flux(Im, Std. Dev. ±3%) -	5050	3540lm	6680lm	10080lm	13440lm	16800lm			
	3030	176lm/w	166lm/w	167lm/w	167lm/w	167lm/w			
Efficacy(lm/W, Std. Dev. ±3%)	5050	177lm/w	167lm/w	168lm/w	168lm/w	168lm/w			
ULOR			=	0%, @ Luminaire inclination	D°				
ССТ	3000K, 4000K, 5000K, 5700K, 6500K								
CRI				70Ra, 80Ra, 90Ra optional					
Beam angle				Type II/Type II/Type IV/Type \	/				
 Mechanical Data									
IP Rating				, according to standard EN 60					
SCx(Fixture)		Front: 0.014 m <sup>2</sup> ; Side: 0.0214 m <sup>2</sup>			Front: 0.0219 m <sup>2</sup> ; Side: 0.035 m <sup>2</sup>				
SCy (Solar Bengl)		Front: 0.45m <sup>2</sup> ;	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)		Front-side: 0.32m <sup>2</sup> ; Side: 0.08m <sup>2</sup> ;	Front-side: 0.47m <sup>2</sup> ; Side: 0.09m <sup>2</sup> ;	Front-side: 0.73m <sup>2</sup> ; Side: 0.09m <sup>2</sup> ;	Front-side: 0.99m <sup>2</sup> ; Side: 0.12m <sup>2</sup> ;	Front-side: 0.99m <sup>2</sup> ; Side: 0.12m <sup>2</sup> ;			
Housing			· · · · · · · · · · · · · · · · · · ·	luty die-cast aluminum (EN AC		,			
5					,				
Surface treatment		Anti-UV thermosetting	polyester / 80 micron epoxy (	primer + Anti-UV thermosettin	g polyester (for extremely cor	rosive environments).			
		Anti-UV thermosetting	polyester / 80 micron epoxy (	primer + Anti-UV thermosettin Silver gray, Custom request	g polyester (for extremely cor	rosive environments).			
Painting		Anti-UV thermosetting				rosive environments).			
Painting Mounting		Anti-UV thermosetting		Silver gray, Custom request		rosive environments).			
Painting Mounting Solar Panel Data		Anti-UV thermosetting	Side e	Silver gray, Custom request entry (fixture) Post top(Solar	panel)	rosive environments).			
Painting Mounting Solar Panel Data Photovoltaic panel			Side e	Silver gray, Custom request entry (fixture) Post top(Solar   ingle crystal photovoltaic pan	panel)	·			
Painting Mounting Solar Panel Data Photovoltaic panel		Anti-UV thermosetting	Side e	Silver gray, Custom request entry (fixture) Post top(Solar	panel)	36V/280W			
Painting Wounting Solar Panel Data Photovoltaic panel Solar Panel			Side e	Silver gray, Custom request entry (fixture) Post top(Solar   ingle crystal photovoltaic pan	panel)	· · · · · · · · · · · · · · · · · · ·			
Painting Wounting Solar Panel Data Photovoltaic panel Solar Panel		18V/72W	Side e Side e 18V/130W	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W	el 36V/280W	36V/280W			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery		18V/72W 691.2WH	Side of Side o	Silver gray, Custom request entry (fixture) Post top(Solar ingle crystal photovoltaic pan 36V/200W 1996.8WH	el 36V/280W 2611.2WH	36V/280W 2611.2WH			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time		18V/72W 691.2WH	Side of Side o	Silver gray, Custom request entry (fixture) Post top(Solar p single crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH	el 36V/280W 2611.2WH	36V/280W 2611.2WH			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan		18V/72W 691.2WH	Side of Side o	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs	el 36V/280W 2611.2WH	36V/280W 2611.2WH			
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Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature		18V/72W 691.2WH	Side of Side o	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs	el 36V/280W 2611.2WH 25.6V 102AH	36V/280W 2611.2WH			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature		18V/72W 691.2WH	Side of Side o	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F	el 36V/280W 2611.2WH 25.6V 102AH	36V/280W 2611.2WH			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature Charing Temperature		18V/72W 691.2WH	Side of Side o	Silver gray, Custom request entry (fixture) Post top(Solar p single crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F -20°C to 45°C (-4°F to 113°F)	el 36V/280W 2611.2WH 25.6V 102AH	36V/280W 2611.2WH			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature Charing Temperature Charing Temperature		18V/72W 691.2WH	Side a Side a S 18V/130W 1305.6WH 12.8V 102AH	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F -20°C to 45°C (-4°F to 113°F) -0°C to 45°C (32°F to 113°F)	el 36V/280W 2611.2WH 25.6V 102AH )	36V/280W 2611.2WH			
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Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature Charing Temperature Charing Temperature Control system Maximum Autonomy Others		18V/72W 691.2WH	Side a Side a 18V/130W 1305.6WH 12.8V 102AH	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F -20°C to 45°C (-4°F to 113°F) -0°C to 45°C (32°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days	el 36V/280W 2611.2WH 25.6V 102AH )	36V/280W 2611.2WH			
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Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature Charing Temperature Charing Temperature Control system Maximum Autonomy Others Lifespan Warranty Certification Product Size (Solar panel) Net Weigh		18V/72W 691.2WH 12.8V 54AH	Side a Side a Side a S 18V/130W 1305.6WH 12.8V 102AH 12.8V 102AH 3 years (Wai CE RoHS (The c 1003*653*508mm 35.5kg	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F -20°C to 45°C (-4°F to 113°F) -0°C to 45°C (-4°F to 113°F) -0°C to 45°C (-4°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days L90B10 - 52 000 h, @Tq 25°C rranty extension up to 5 years company is ISO 9001 and ISO 1613*653*508mm 45.5kg	el 36V/280W 2611.2WH 25.6V 102AH ) ) ) s s on request) 14001 certified.) 1500*990*593mm 73kg	36V/280W 2611.2WH 25.6V 102AH			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature Charing Temperature Charing Temperature Control system Maximum Autonomy Others Lifespan Warranty Certification Product Size (Solar panel) Net Weigh		18V/72W 691.2WH 12.8V 54AH 	Side a Side a Side a S 18V/130W 1305.6WH 12.8V 102AH 12.8V 102AH 3 years (War CE RoHS (The c 1003*653*508mm 35.5kg Fixture: 520*270*135mm Box: 620*400*290mm	Silver gray, Custom request entry (fixture) Post top(Solar p 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F -20°C to 45°C (-4°F to 113°F) -0°C to 45°C (-4°F to 113°F) -0°C to 45°C (-4°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days L90B10 - 52 000 h, @Tq 25°C rranty extension up to 5 years company is ISO 9001 and ISO 1613*653*508mm 45.5kg Fixture: 520*270*135mm Box: 691*400*290mm	el 36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH ) ) s s c s on request) 14001 certified.) 14001 certified.) 1500*990*593mm 73kg Fixture: 825*360*200mm Box: 1186*400*290mm	36V/280W 2611.2WH 25.6V 102AH			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature Charing Temperature Charing Temperature Control system Maximum Autonomy Others Lifespan Warranty Certification Product Size (Solar panel) Net Weigh Carton Size		18V/72W 691.2WH 12.8V 54AH 	Side a Side a Si	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F -20°C to 45°C (-4°F to 113°F) -0°C to 45°C (-4°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days L90B10 - 52 000 h, @Tq 25°C rranty extension up to 5 years company is ISO 9001 and ISO 1613*653*508mm 45.5kg Fixture: 520*270*135mm Box: 691*400*290mm Panel: 1693*733*125mm Fixture: 3kg Box: 38kg	el 36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH ) ) c s on request) 14001 certified.) 14001 certified.) 1500*990*593mm 73kg Fixture: 825*360*200mm Box: 1186*400*290mm Panel: 1560*1050*125mm Fixture: 8.1kg Box: 46kg	36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 1500*990*593mm 73kg Fixture: 825*360*200m Box: 1186*400*290mm Panel: 1560*1050*125m Fixture: 8.1kg Box: 46kg			
Surface treatment Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature Charing Temperature Control system Maximum Autonomy Others Lifespan Warranty Certification Product Size (Solar panel) Net Weigh Carton Size Gross Weight		18V/72W 691.2WH 12.8V 54AH 2.8V 54AH 818*493*468mm 25.5kg Fixture: 520*270*135mm Box: 402*400*290mm Panel: 898*573*125mm Fixture: 3kg	Side a Side a Si	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F -20°C to 45°C (-4°F to 113°F) -0°C to 45°C (-4°F to 113°F) -0°C to 45°C (-4°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days L90B10 - 52 000 h, @Tq 25°C rranty extension up to 5 years company is ISO 9001 and ISO 1613*653*508mm 45.5kg Fixture: 520*270*135mm Box: 691*400*290mm Panel: 1693*733*125mm	el 36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH ) ) 5 5 5 5 6 7 7 8 6 7 7 8 7 7 7 8 7 7 7 7 8 7 7 7 7 7 8 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 1500*990*593mm 73kg Fixture: 825*360*200m Box: 1186*400*290mr Panel: 1560*1050*125m Fixture: 8.1kg			
Painting Mounting Solar Panel Data Photovoltaic panel Solar Panel Li-on Battery Charing Time Battery lifespan Run Time(@full pow er) Working Temperature Storage Temperature Charing Temperature Charing Temperature Control system Maximum Autonomy Others Lifespan Warranty Certification Product Size (Solar panel) Net Weigh Carton Size		18V/72W 691.2WH 12.8V 54AH 	Side a Side a Si	Silver gray, Custom request entry (fixture) Post top(Solar p ingle crystal photovoltaic pan 36V/200W 1996.8WH 25.6V 78AH 8hrs >2000 times cycle 30hrs -10°C to 50°C (-14°F to 122°F -20°C to 45°C (-4°F to 113°F) -0°C to 45°C (-4°F to 113°F) MPPT intelligent controller Operate under 3-5 rainy days L90B10 - 52 000 h, @Tq 25°C rranty extension up to 5 years company is ISO 9001 and ISO 1613*653*508mm 45.5kg Fixture: 520*270*135mm Box: 691*400*290mm Panel: 1693*733*125mm Fixture: 3kg Box: 38kg	el 36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH ) ) c s on request) 14001 certified.) 14001 certified.) 1500*990*593mm 73kg Fixture: 825*360*200mm Box: 1186*400*290mm Panel: 1560*1050*125mm Fixture: 8.1kg Box: 46kg	36V/280W 2611.2WH 25.6V 102AH 25.6V 102AH 1500*990*593mm 73kg Fixture: 825*360*200m Box: 1186*400*290mm Panel: 1560*1050*125m Fixture: 8.1kg Box: 46kg			

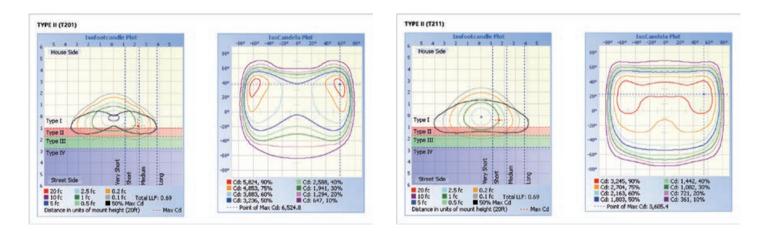
## **Ordering Information**

AOK							
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT	OPTION
20WsL	NV1=12.8V DC	L3=LUMILEDS 3030	00=Without Sensor	3070=3000K 70CRI	T2=TYPE II	A=Top Post	4KV SPD
40WsL	NV2=25.6V DC	L5=LUMILEDS 5050	SN=Motion Sensor	4070=4000K 70CRI	T3=TYPE III		Intelligent Control
60WsL			PH=Photocell	5070=5000K 70CRI	T4=TYPE IV		
80Ws L			DV=Dimmable	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



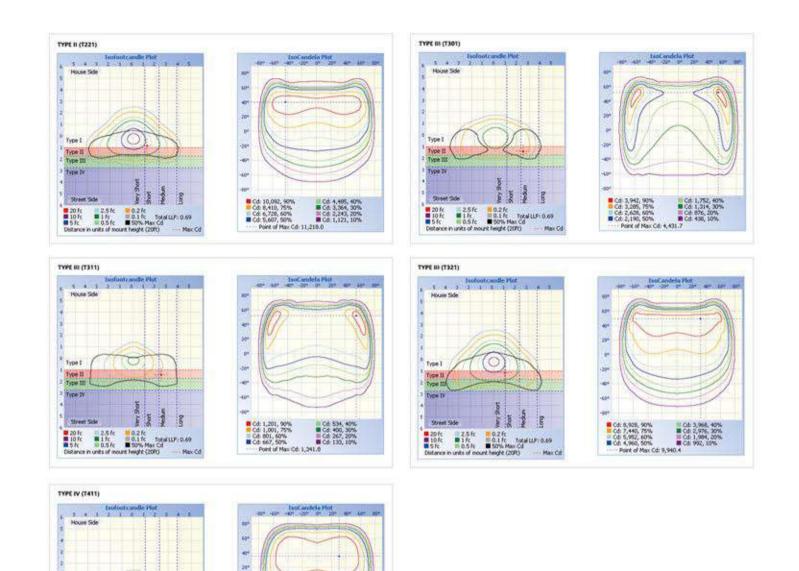
# Illuminance Diagram

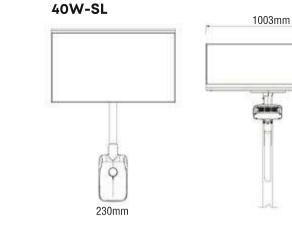


#### SL Series Specification Sheet

\*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.



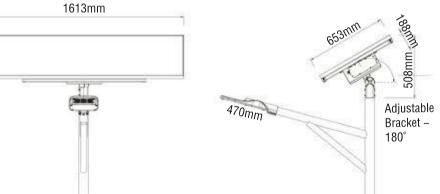






1000

10.0

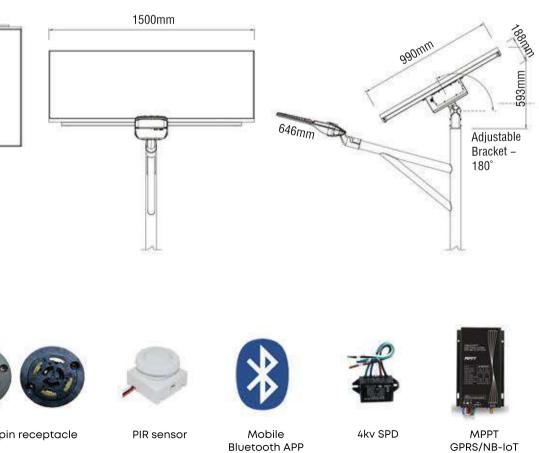


80W-100W-SL

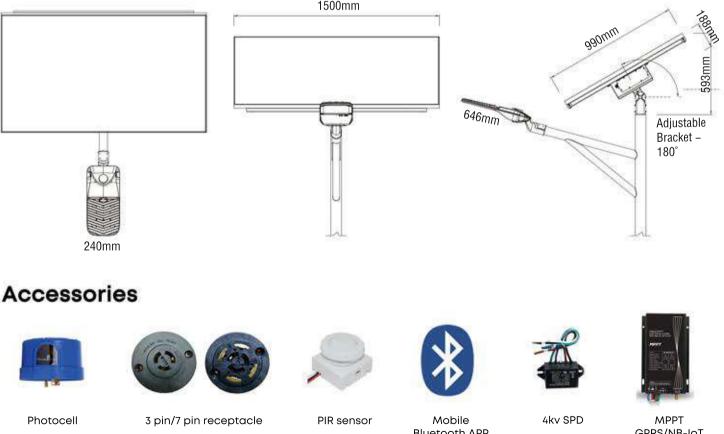
Q

230mm

60W-SL







\*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.

#### 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.

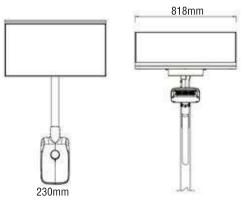
Dimensions

Post Post

20 fc 2.5 fc 0.2 fc
 10 fc 1 fc
 0.1 fc 0.1 fc
 5 fc 0.5 fc
 50% Max Cd

20W-SL

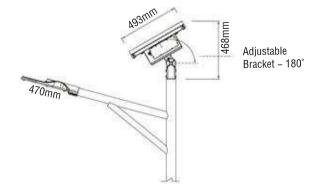
ce III

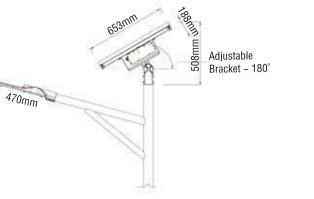


--28\* 

Cd: 916, 90% Cd: 764, 75% Cd: 611, 60% Cd: 529, 50%

Cd: 305, 30% Cd: 204, 20% Cd: 102, 10%









# Illuminate Your Future



#### • WARRANTY

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

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