

KS-LIT AIO Solar LED Lighting



Description

KS-LIT AIO solar powered LED lighting solutions incorporate a self-contained solar power assembly sized to run the specific solar light fixture that provides user-friendly and cost-efficient street and area lighting systems without the need for standard utility power. The highly reliable solar lighting system responds to the global green and sustainable energy initiatives. KS integrated solar LED lighting has been widely implemented on city roads, neighborhood streets, rural roads, parks, courtyard etc.

Features

- Designed to operate reliably and sustainably up to a 10-12 hours period
- Sufficiently designed autonomy for 3-5 continuous overcast or rainy days to ensure its reliable night light output
- Integrated design with all solar components packed in the same housing
- Wide and accurate light distribution to enable high utilization of light
- Theft and vandal resistant
- Easy to install and maintain
- High output lumen efficiency up to 150lm/W
- IP68 rated solar charger controller
- Able to finetune our products for customer specific requirements.

Applications

Street lighting / Area lighting / Security lighting / Park ing lot areas / Off-grid roads etc.



HOW IT WORKS

KS LIT AIO Solar LED Street Lights are equipped with three possible controls for intelligent street lighting. The luminaire will work automatically, no manual setting needed.

Daylight Control

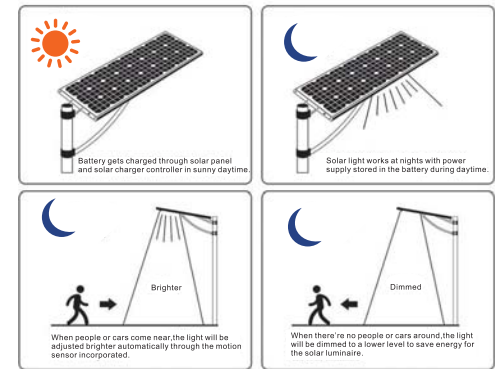
The solar street light will be turned on and off automatically through charger controller with built-in dusk to dawn daylight control function.

Timing + Dimming Control

The solar street light can be programmed three levels of timing and dimming control function such as 50%x1+100%x3+30%x6. All the time and brightness schedules can be customized based on your specific requirement.

Motion Sensor + Dimming Control + Optional Timing Control

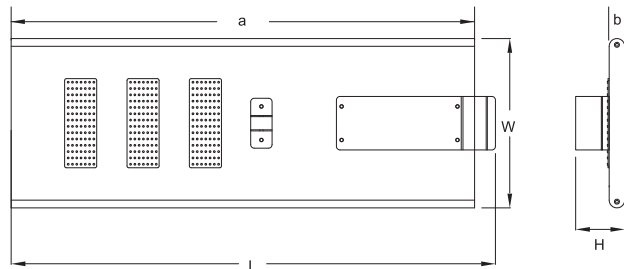
When the solar luminaire is assembled with optional motion sensor, it can be set when people come nearby the solar luminaire. The brightness will be 100%. After people move away, the brightness will be adjusted to a lower level such as 20% to save the energy. The motion sensor can also work with three levels timing control function, the specific setting can be customized based on specific requirements.



Ordering Information

Model No.	KSL-30	KSL-40	KSL-50	KSL-60	
Nominal LED Light Power	30W	40W	50W	60W	
LED Chip	Lumileds				
Solar Panel	60Wp	60Wp	80Wp	80Wp	
Charger Controller	12V/24V				
LiFePO4 Lithium Battery	12.8V, 24Ah 25.6V, 12Ah	12.8V, 30Ah 25.6V, 15Ah	12.8V, 36Ah 25.6V, 18Ah	12.8V, 60Ah 25.6V, 30Ah	
Light Distribution	Type III				
Color Temperature	5000/6000K				
Flux	4,500lm	6,000lm	7,500lm	9000lm	
Lighting Controls Available	Poles≤6m Infrared / Microwave / + Timing				
	6m≤Poles≤8m Microwave / + Timing				
	Pole>8m Timing Control				
Charging Time	6-10Hr under strong sunshine				
Working Time	Full Bright	10Hr	10Hr	10Hr	12Hr
	Dim Mode	>30Hr	>30Hr	>30Hr	>30Hr
Product Size	L1,159×W475×H138mm a1,100×w475×b44mm		L1,359×W475×H138mm a1,300×w475×b44mm		
Net Weight	18Kg	20Kg	22Kg	24Kg	
Recommended Height	6M	6-7M	7-8M	8-9M	
Recommended Pole Spacing	20-25M	25-30M	30-35M	35-40M	
Working Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	
IP Rating	IP65	IP65	IP65	IP65	

Dimensional Drawings



KS-LIT Solar LED Lighting System



Tailor

Clipper

Description

KS-LIT solar powered LED lighting solutions incorporate a self-contained solar power assembly sized to run the specific solar light fixture that provides user-friendly and cost-efficient street and area lighting systems without the standard utility power. The highly reliable solar lighting system responds to the global green and sustainable energy initiatives. This Solar LED lighting has been widely implemented on highways, city roads, neighborhood streets, rural roads, parks, courtyard etc.

Features

- Designed to operate reliably and sustainably up to a 12 hours period
- Sufficiently designed autonomy for 2-3 continuous overcast or rainy days to ensure its reliable night light output
- Pole or buried mounting options available for storage battery.
- Accurate light distribution to enable high utilization of light
- Theft and vandal resistant
- Engineered for most parts of Africa, other regions can be engineered specifically
- High output lumen efficiency up to 150lm/W
- IP67 waterproof connectors for the whole system as standard.
- Able to finetune our products for customer specific requirements.

Application

Street lighting / Area lighting / Security lighting / Park ing lot areas / Off-grid roads etc.



Tailor



Top brand quality monocrystalline silicon solar panels with high efficiency and long lifespan are used to harvest solar energy.



High power and efficient LM80 LED used to ensure the lumen output for the system. Dimmable through the controller to optimize the system performance and save the battery power.



Highly efficient MPPT or PWM waterproof solar charger controller with programmable dimming and timing control function.



Clipper



Auto on and off function from dusk to dawn, user-friendly design.



Deep discharge and waterproof batteries are selected to preserve the energy for the system with sufficient capacities to support the light to run for three overcast or rainy days.

Tailor

Power (W)	Flux (lm)	Work Mode	Storage Battery	Solar Module	Charge Controller	System Voltage	Autonomy
40W/20W×2	6,000	100%×12	150AH	120Wp	12V 10A	12V	3 days
60W/30W×2	9,000	100%×12	200AH	200Wp	24V 10A	24V	3 days
60W/30W×2	9,000	100%×6+50%×6	160AH	150Wp	24V 10A	24V	3 days
80W/40W×2	12,000	100%×6+50%×6	200AH	200Wp	24V 20A	24V	3 days
100W/50W×2	15,000	100%×6+50%×6	240AH	240Wp	24V 20A	24V	3 days

Clipper

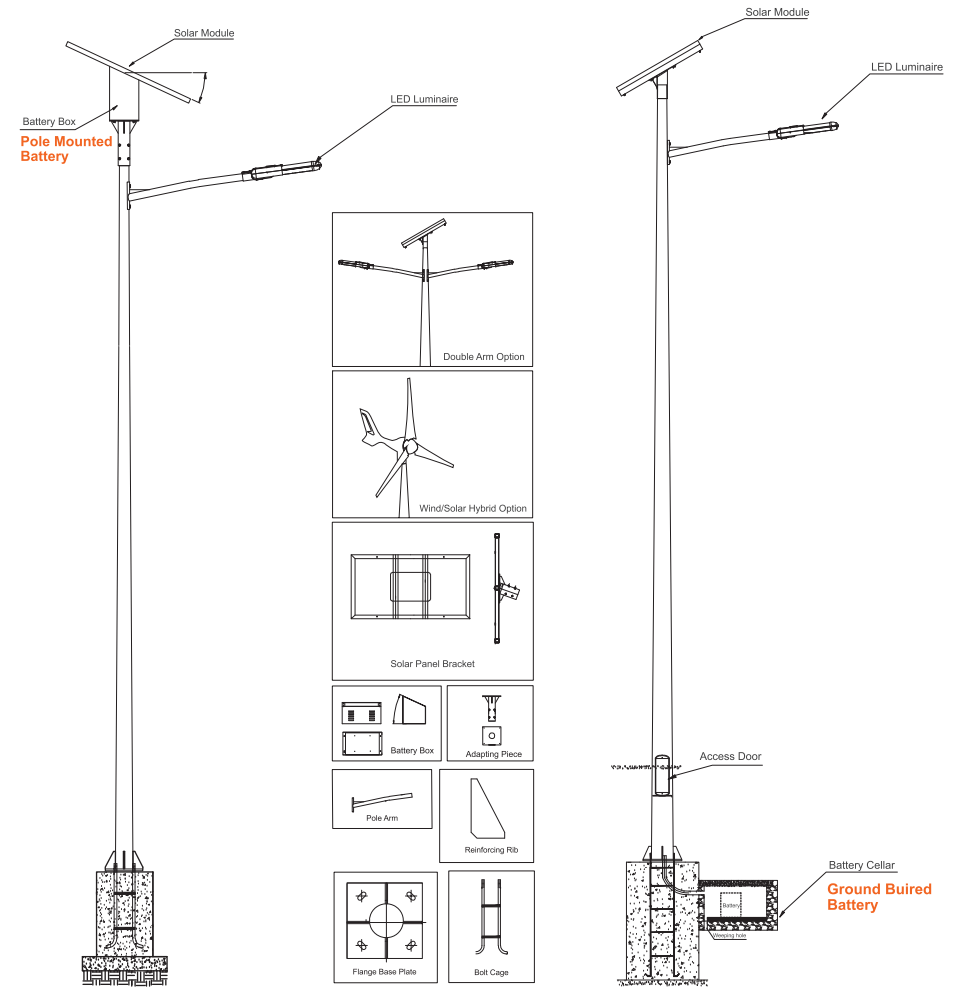
Power (W)	Flux (lm)	Work Mode	Storage Battery	Solar Module	Charge Controller	System Voltage	Autonomy
15	2,100	Dimming Mode	18AH	30Wp	12V 10A	12V	3 days
25	3,500	Dimming Mode	27AH	50Wp	12V 10A	12V	3 days

*Above system configurations are designed based on the climate resources of the Southern part of Africa. 40W and 60W systems are recommended for 6 meters pole height. 80W and 100W systems are recommended for 8 meters pole height.

Solar LED Light Model Options For Tailor

Power (W)	Apollo	Apollo 2	Pallas	Patio	Chalet
Available Models					
40	RL2R3001DC	RL183001DC	RL0310202DC	PL1A1036DC	PL1F1036DC
60	RL2R3002DC	RL183002DC	RL051032DC	PL1A1048DC	PL1F1048DC
80	RL2R3002DC	RL183002DC	RL051040DC		
100	RL2R3003DC	RL183003DC	RL051048DC		

Other models of less than 100W also can be solar powered, please refer to our full catalogue for other possible options. *The luminous efficacy of solar powered Patio and Chalet garden lights is 110lm/W.



Pole Height:6M/8M

Solar Lighting System construction with pole mounted battery

Pole Height:6M/8M

Solar Lighting System construction with buried battery

The product design and specifications are subject to change without prior notice. Above construction designs are for reference only, which shall be designed based on specific project.