

JRLP-SOL

Premium Solar Roadway & Area Light rotatable LED module



**DARKSKY
COMPLIANCE**
*No light pollution /
No light above 90°*



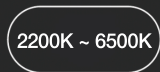
Green Energy
100% solar



Smart MPPT
Controller



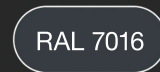
LiFePO4 Li-ion
Battery



Multiple
CCT Options



3" Slip Fitter
Mounting Adapter



Fixture Color
Anthracite Grey



Motion
Sensor



Rotatable
LED module



IP65
Waterproof



JRLP-SOL Premium Solar Roadway & Area Light

The JRLP-SOL is a versatile outdoor solar lighting solution designed to meet the demands of any application. With a wide power range from 50W to 180W and CCT range from 2200K to 6500K, it easily accommodates pole heights from 5 to 14 meters. A standout feature is its adjustable LED modules, which can be effortlessly tuned manually. This ensures optimal light distribution on the road while allowing the solar panel to maximize its exposure to the sun.

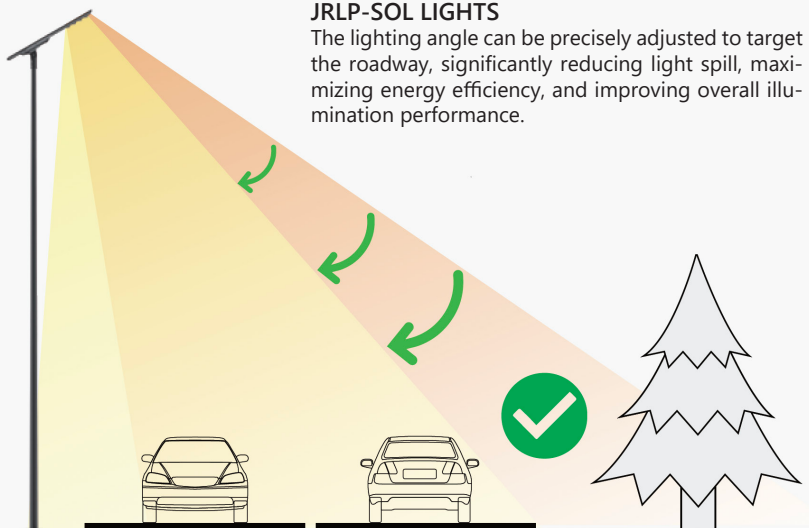
Engineered for high performance, the system supports solar panels up to 196W and a battery capacity of up to 25.6V 60AH. Maintenance is also highly streamlined; the solar panel and battery box are secured together by just six screws, making future repairs or replacements quick and effortless.

Partner with the next-generation JRLP-SOL series to elevate your product offerings and expand your solar lighting business.



JRLP-SOL LIGHTS

The lighting angle can be precisely adjusted to target the roadway, significantly reducing light spill, maximizing energy efficiency, and improving overall illumination performance.

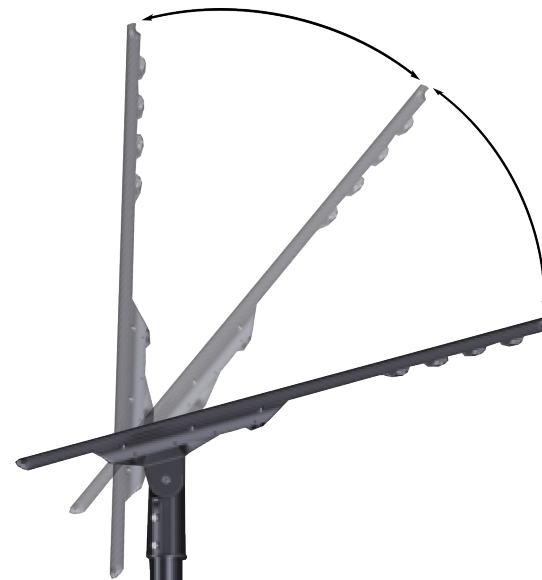
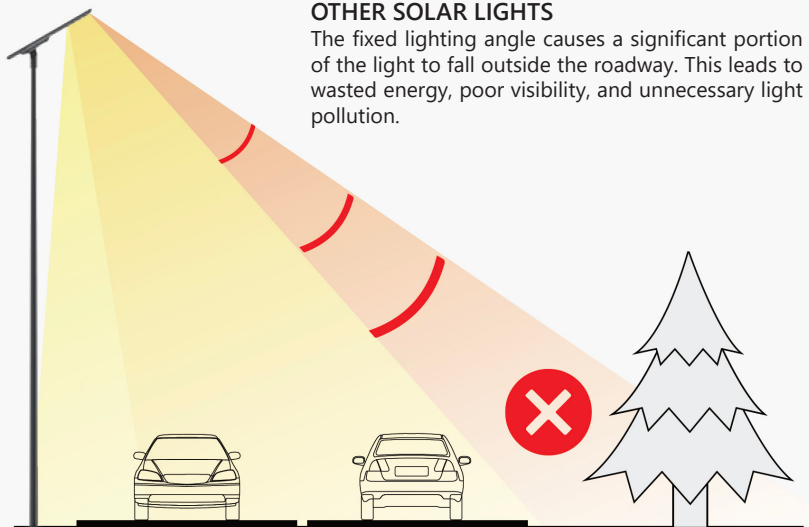


VS.



OTHER SOLAR LIGHTS

The fixed lighting angle causes a significant portion of the light to fall outside the roadway. This leads to wasted energy, poor visibility, and unnecessary light pollution.



Rotatable LED module

While integrated solar street lights are easy to install and significantly reduce labor costs, traditional all-in-one designs suffer from a major drawback: their fixed angles cannot adjust to varying solar positions across different regions. This limitation creates a frustrating compromise. If the solar panel is angled to maximize sunlight absorption, the LED light often misdirects away from the road, causing light pollution and wasted energy. Conversely, angling the fixture to illuminate the road means sacrificing the solar panel's optimal power-generation angle.

The JRLP-SOL series solar street lights perfectly resolve this dilemma. Featuring a sleek, high-strength die-cast aluminum bracket, the JRLP-SOL series allows for independent angle adjustments. Each LED module can be adjusted manually and features a tool-free, self-locking mechanism. This innovative design ensures that the solar panel can always face the sun for maximum charging efficiency, while the light source can be precisely directed onto the roadway—maximizing energy utilization and eliminating waste.

Partner with the next-generation JRLP-SOL series to elevate your product offerings and expand your solar lighting business.



JRLP-SOL-50/60W



JRLP-SOL-80W



JRLP-SOL-100W



JRLP-SOL-120W



JRLP-SOL-140/160W



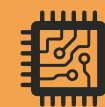
JRLP-SOL-180W



Various programs are built inside and be chosen by remote easily. Summer mode and winter mode are available for more days of battery backup.



Smart wireless Zigbee control scheme is available, using European standard ZHAGA connector.



Adopt MPPT solar controller with efficiency up to 97% to improve charging efficiency.



The led module is rotatable, lighting angle is adjustable to make more light to fall on the road without wasting light.



Adopting modular structure design, the battery box and solar panel are easy to disassemble



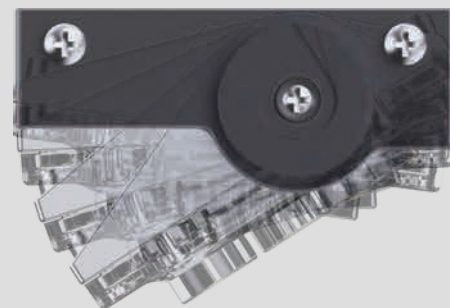
The use of 5050 lamp beads improves the luminous efficiency of the lamp beads, which can reach up to 180lm/W.



HE Lighting Engine, Durable Optics

The lighting engine utilizes high-efficiency 5050 LED chips, delivering an impressive luminous efficacy of up to 180 lm/W. The optics are constructed from UV-resistant polycarbonate (PC), offering exceptional impact resistance and anti-aging properties for long-term durability.

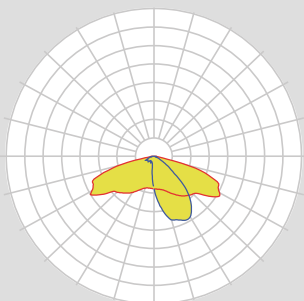
Additionally, the optimized beam angles ensure uniform light distribution, eliminating dark zones between poles and maximizing overall light utilization.



Flexible & Adjustable Rotation

To adapt to diverse installation requirements, all LED modules feature rotatable designs with built-in auto-lock gears.

- The tilt angle can be easily adjusted manually from +30° to -10°, allowing installers to precisely direct light onto the roadway while minimizing wasteful light spill.
- Slip Fitter (Mounting Adapter) Size: 3"



Double Asymmetric Light Distribution

Leveraging our latest patented light source technology, the specialized lens structure shapes the output into a bat-wing distribution pattern. This design achieves superior uniform illumination, enhances visual efficacy, and expands coverage.

A wide variety of light distribution options are available to meet the specific demands of any project.



Premium, Project-Grade Reliability

The JRLP-SOL is engineered to meet rigorous project-level standards using only premium components:

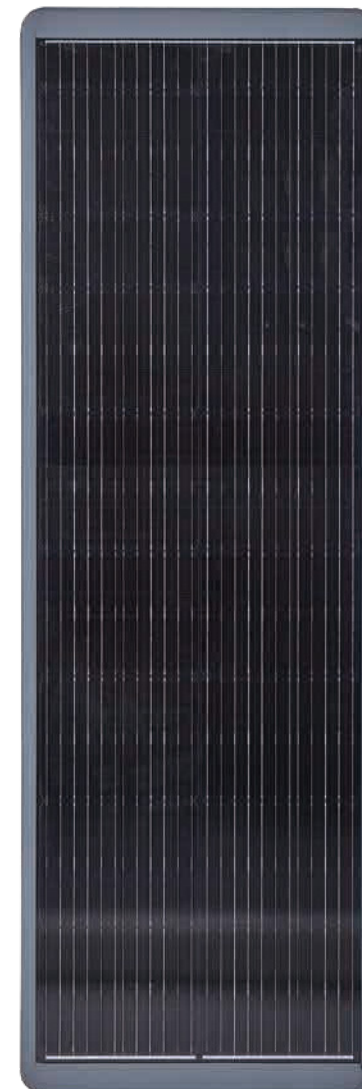
- **Maximized Solar Charging:** Equipped with an MPPT solar charge controller boasting a 97% charging efficiency.
- **Ultra-Efficient LEDs:** Powered by high-efficacy 180 lm/W LED chips.
- **Long-Life Battery:** Features a brand-new battery rated for up to 6,000 cycles at an 80% Depth of Discharge (D.O.D.).
- **Comprehensive Protection:** Backed by a 5-year warranty on the complete lighting system.

Main Specification

Item number	JRLP-SOL-50W	JRLP-SOL-60W	JRLP-SOL-80W	JRLP-SOL-100W	JRLP-SOL-120W	JRLP-SOL-140W
Wattage	50W	60W	80W	100W	120W	140W
Lumens	8,500lm	10,200lm	13,600lm	17,000lm	20,400lm	23,800lm
CCT options	22K / 30K / 35K / 40K / 50K / 57K / 65K					
LED module	SMD5050 32pcs	SMD5050 32pcs	SMD5050 48pcs	SMD5050 64pcs	SMD5050 64pcs	SMD5050 80pcs
LiFePO4 battery	12.8V 384WH	12.8V 460WH	12.8V 614WH	12.8V 768WH	25.6V 921WH	25.6V 1075WH (max cap. 1536WH)
Solar panel	18V 82W	18V 103W	18V 125W	36V 135W	36V 158W	
Product size (L*W*H)	43.31"x16.54"x13.78" (1100*420*350mm)	51.18"x16.54"x13.78" (1300*420*350mm)	62.6"x16.54"x13.78" (1590*420*350mm)	53.54"x20.87"x14.96" (1360*530*380mm)	58.27"x20.87"x14.96" (1400*530*380mm)	
Charge controller	MPPT with sensor					
Pole size	76mm					
Installation height	16.40 ft ~ 26.25 ft (5 ~ 8m)	19.69 ft ~ 32.81 ft (6 ~ 10m)	19.69 ft ~ 39.37 ft (6 ~ 12m)	26.25 ft ~ 39.37 ft (8 ~ 12m)	26.25 ft ~ 45.93 ft (8 ~ 14m)	
Certificates	CE ROHS CB IP65					
Warranty	5 years					

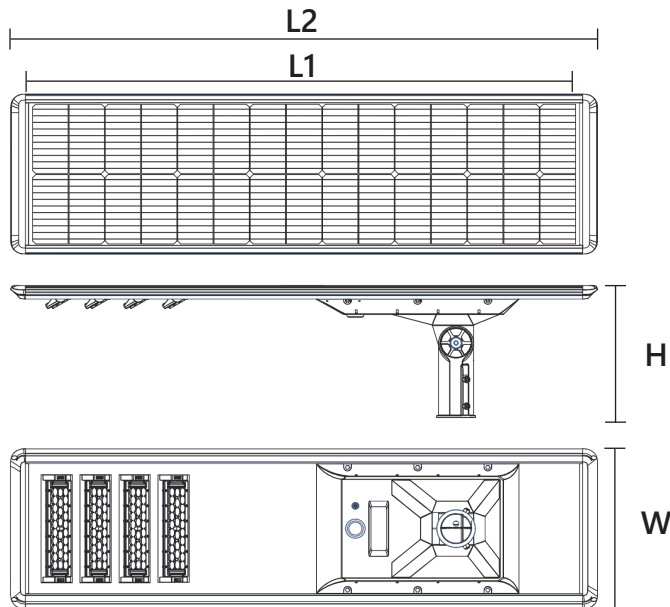
Remark:

CCT of 3000K or lower is required for IDA certification compliance. When installing, the led module should be in the downward position and facing to ground, and solar panel is facing upward to the sun.



Fixture Color: RAL 7016 (Anthracite Grey)

Dimensions



Item number	JRLP-SOL-50W	JRLP-SOL-60W	JRLP-SOL-80W	JRLP-SOL-100W	JRLP-SOL-120W	JRLP-SOL-140W
L1	43.31" (1100 mm)	43.31" (1100 mm)	51.18" (1300 mm)	62.60" (1590 mm)	53.54" (1360 mm)	58.27" (1480 mm)
L2	41.34" (1050 mm)	41.34" (1050 mm)	49.21" (1250 mm)	59.84" (1520 mm)	51.57" (1310 mm)	56.30" (1430 mm)
W	16.54" (420 mm)	16.54" (420 mm)	16.54" (420 mm)	16.54" (420 mm)	20.87" (530 mm)	20.87" (530 mm)
H	13.78" (350 mm)	13.78" (350 mm)	13.78" (350 mm)	13.78" (350 mm)	14.96" (380 mm)	14.96" (380 mm)
Net Weight	27.12 lbs (12.30 kg)	32.19 lbs (14.60 kg)	40.79 lbs (18.50 kg)	51.81 lbs (23.50 kg)	58.42 lbs (26.50 kg)	65.04 lbs (29.50 kg)

Note: Slip Fitter (Mounting Adapter) Size - 3"

Ingress & Impact Protection

IP65 Water/Dustproof Rating:

Engineered for complete protection against dust ingress and solid foreign objects. The fixture is fully sealed against low-pressure water jets from any direction, preventing water from entering the lamp and causing internal damage.



IK08 Impact Resistance:

Certified to withstand up to 10 Joules of impact energy. This is equivalent to the impact force of a 5 kg (11 lbs) object dropped from a height of 200 mm (approx. 8 inches) directly onto the surface, ensuring robust durability against external vandalism or environmental hazards.

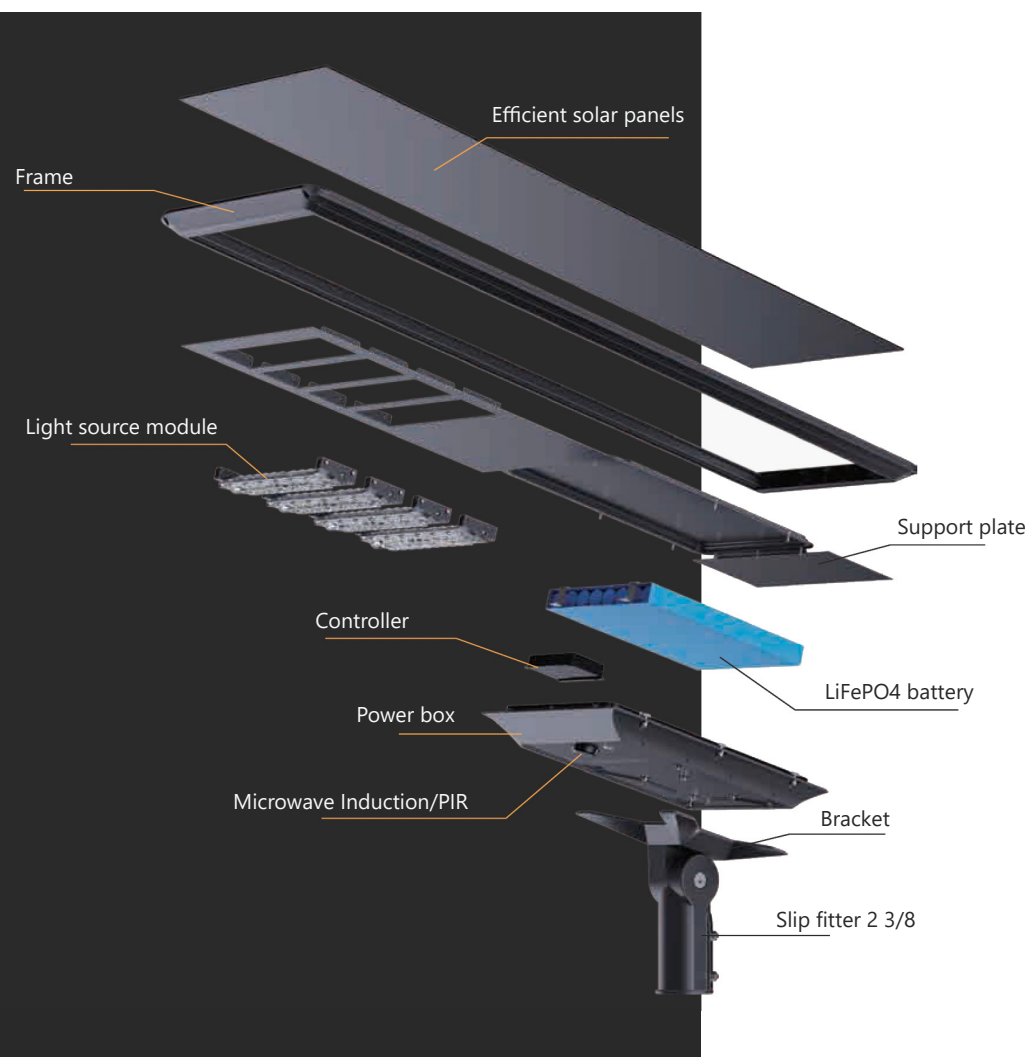


Structural Mechanics & Durability

Premium Material Composition: Constructed with a highly corrosion-resistant aluminum alloy housing and tempered stainless steel hardware, ensuring long-term structural integrity.

IP65 & IK08 Certified Protection: With an IP65 ingress rating and IK08 impact resistance, the ruggedized shell provides superior strength and defense against physical impacts.

All-Weather Resilience: Meticulously engineered for ultimate durability, this series guarantees reliable, uninterrupted performance through severe rain, heavy snow, and intense storms.



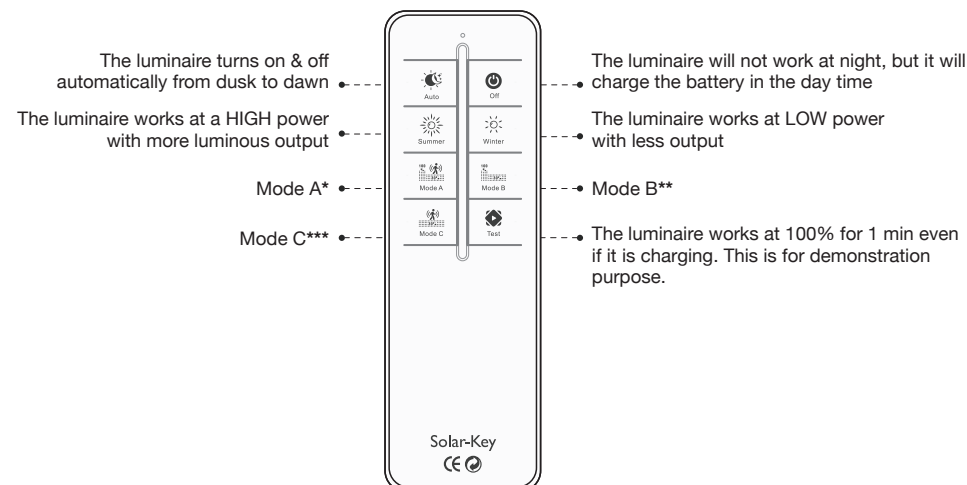
Intelligent Remote Control: Solar-Key*

The Solar-Key is a powerful remote control pre-programmed with multiple lighting profiles. It allows you to effortlessly adjust the operational settings of your solar lights to match specific project requirements.

Region-Optimized Programming: The Solar-Key features the industry's most popular lighting programs, carefully engineered around varying global solar radiation levels.

Global Adaptability: Whether deployed in high-sunlight regions like the Middle East and South America, or in areas with lower solar irradiance like Europe, the remote enables you to easily select the most efficient operational profile for your environment.

**Intelligent Remote Control Solar-Key is available for 60/80W only*



***Mode A:**
The luminaire works at 100% for 4 hours then works at 30% power and at 100% when the sensor is triggered

****Mode B:**
The luminaire works at 100% power for 4 hours then works at 30% power in the rest time without sensor

*****Mode C - Default Program mode:**
The luminaire works at 30% power and at 100% when the sensor is triggered for the whole night

