

Solar Power Indonesia SPI-Lite Solar Power Lighting Systems

Power solutions for a small planet....



SPI-Lite Solar Lighting System is the ideal solution for streetlight for park, junction, factory, housing estate and other common areas that requires reasonable illuminations. It operates at low voltage level which is safe for public use.

SPI-Lite is fully autonomous as it will automatically turn on/off the lamp according to the daylight condition. The default setting is dusk-to-dawn operation. Other operational modes such as dusk on, midnight off can be programmed too.

SPI-Lite Solar Lighting System is the ideal solution for streetlights, rural roads, factories, housing estates and other common areas requiring high illumination. It also operates at a low level voltage (12V DC) making it safe to public use areas.

Aesthetically designed outdoor, weatherproof light fittings combined with high efficiency lamps which operate at high frequency to save energy and provide stable lighting. The system is programmed to automatically turn on at dusk and off at dawn with light sensing

equipment. This automatic system provides only necessary lighting and minimizing redundant power loss.

The system includes built-in protection circuits for over-charging and discharging of the storage battery. The solar module will continue functioning even in cloudy or wet weather conditions.

The Streetlight System is a standalone photovoltaic lighting system and is completely self-contained for outdoor use eliminating the need for costly connection of power lines.

Compound lighting provides illumination the compounds and parking areas of factories, housing estates and other public use areas which significantly improves security or provides lighting for evening activities. Each light is a self-contained standalone system that requires very little maintenance except for change the battery and the lamp once every 3-4 years. The system is programmed to automatically turn on at dusk and off at dawn with light sensing equipment.

BENEFITS

- Easy to install, no long cables to be laid compared with conventional street lighting
- Provide instant lighting in off-grid locations
- Auto on/off
- Back-up power of 3-days
- Low cost

FEATURES

- Highly energy efficient with use of compact fluorescent lamp (CFL) or low pressure sodium lamp (LPS). Both lamps consume less power and supply much higher illumination compared to conventional tungsten lamp
- Fully autonomous operation. Default mode is dusk-to-dawn uninterrupted lighting.
- 3-days standby backup power
- Built-in protection circuits for overcharging and discharging of the battery.
- Weather proof lamp fixture fitting



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SPECIFICATIONS

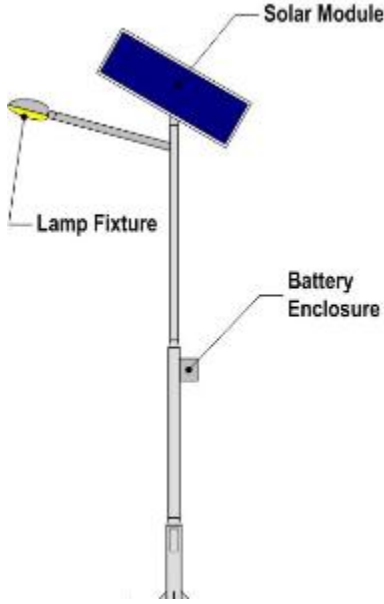
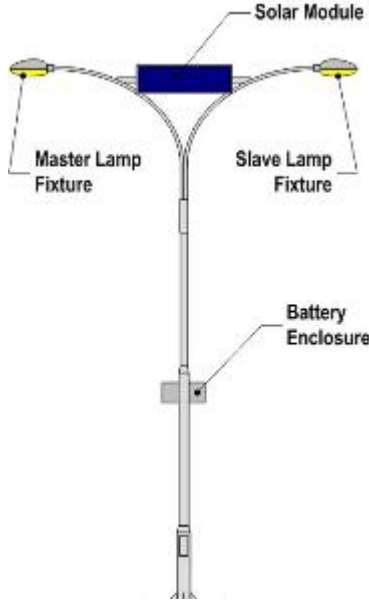
SPI-Lite Solar Streetlight (Single-lamp Series)			
Model Type	SPI07815C	SPI078215W	SPI07818L
Solar Module Power Rating	78 Watt Polycrystalline		
Weight of Solar Module	10.9 kg		
Charge Controller Rating	5 Amp		10 Amp
Lamp	15 Watt CFL (Cool)	15 Watt CFL (Warm)	18 Watt LPS
Lighting Fixture IP Protection	IP 65		
Battery Capacity	105 Ah @ 12VDC		105 Ah @ 12VDC x 2
Battery Weight	24.5 kg		24.5 kg x 2
Battery Enclosure (optional)	400 (L) x 250 (D) x 300 (H) mm		400 (L) x 250 (D) x 300 (H) mm x 2
Pole (recommend size - consumer self-supply)	4 to 6 m Height, Hot-Dip Galvanized Metal Pole		5 to 8 m Height, Hot-Dip Galvanized Metal Pole
SPI-Lite Solar Streetlight (Twin-lamp Series)			
Model Type	SPI12015C2	SPI12015W2	SPI12018L2
Solar Module Power Rating	120 Watt Polycrystalline		120 Watt Polycrystalline
Weight of Solar Module	11.5 kg		11.5 kg
Charge Controller Rating	10 Amp		
Lamp	15 Watt CFL (Cool) x 2	15 Watt CFL (Warm) x 2	18 Watt LPS x 2
Lighting Fixture IP Protection	IP 65		
Battery Capacity	105 Ah @ 12VDC x 2		
Battery Weight	24.5 kg x 2		
Battery Enclosure (optional)	400 (L) x 250 (D) x 300 (H) mm x 2		
Pole (recommend size - consumer self-supply)	5 to 8 m Height, Hot-Dip Galvanized Metal Pole		

Specifications subject to change without prior notice

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Single-Lamp Series	Twin-Lamp Series
[Pole and Mounting Design are customize to customer's requirement]	
	



Factory Lighting



Jetty Lighting



Park Lighting

COMPONENTS



Compact Fluorescent Lamps
Colour – White & Amber

Long-life, **Compact Fluorescent Lamp (CFL)** that has low heat loss resulting in energy saving and is safe to touch during operation, unlike conventional CFL and incandescent bulb. External non-glass cover provides greater safety factor during usage and handling. As a result, greater life span of the lamp is achieved with more than 25,000 operating hours.

- Wide colour spectrum
- High efficiency – 15W CFL equivalent to 60W incandescent lamp brightness
- Cost effective – Superior lamp life over incandescent lamp
- Energy efficient as it consumes low power and low heat loss

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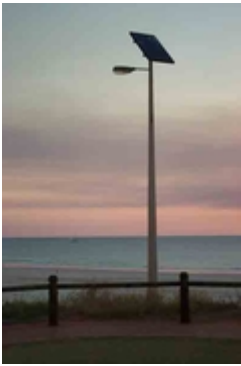
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Low-Pressure Sodium Lamp (LPS)

- Narrow colour spectrum
- High Efficiency – up to 200 lumens per watt, highest among available light source.
- High lamp life – up to 18,000 hours.

Low Pressure Sodium Lamp
Colour – Amber only



Battery & Controller

Maintenance free, sealed lead acid deep cycle battery is used to store electric energy during daylight hours when electricity is generally not required.

Benefits:

- Deep Cycle – provides a long stream of power for extended periods.
- Low Self-Discharge – retain stored energy for longer period of time
- Maintenance Free – free from electrolyte maintenance and adding of water

The controller regulates the charging rate of the battery for overcharge and discharge protection. Built-in lighting control unit supplies uninterrupted lighting from dusk-to-dawn.



Compound / Housing Estate Lighting



Street Lighting

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