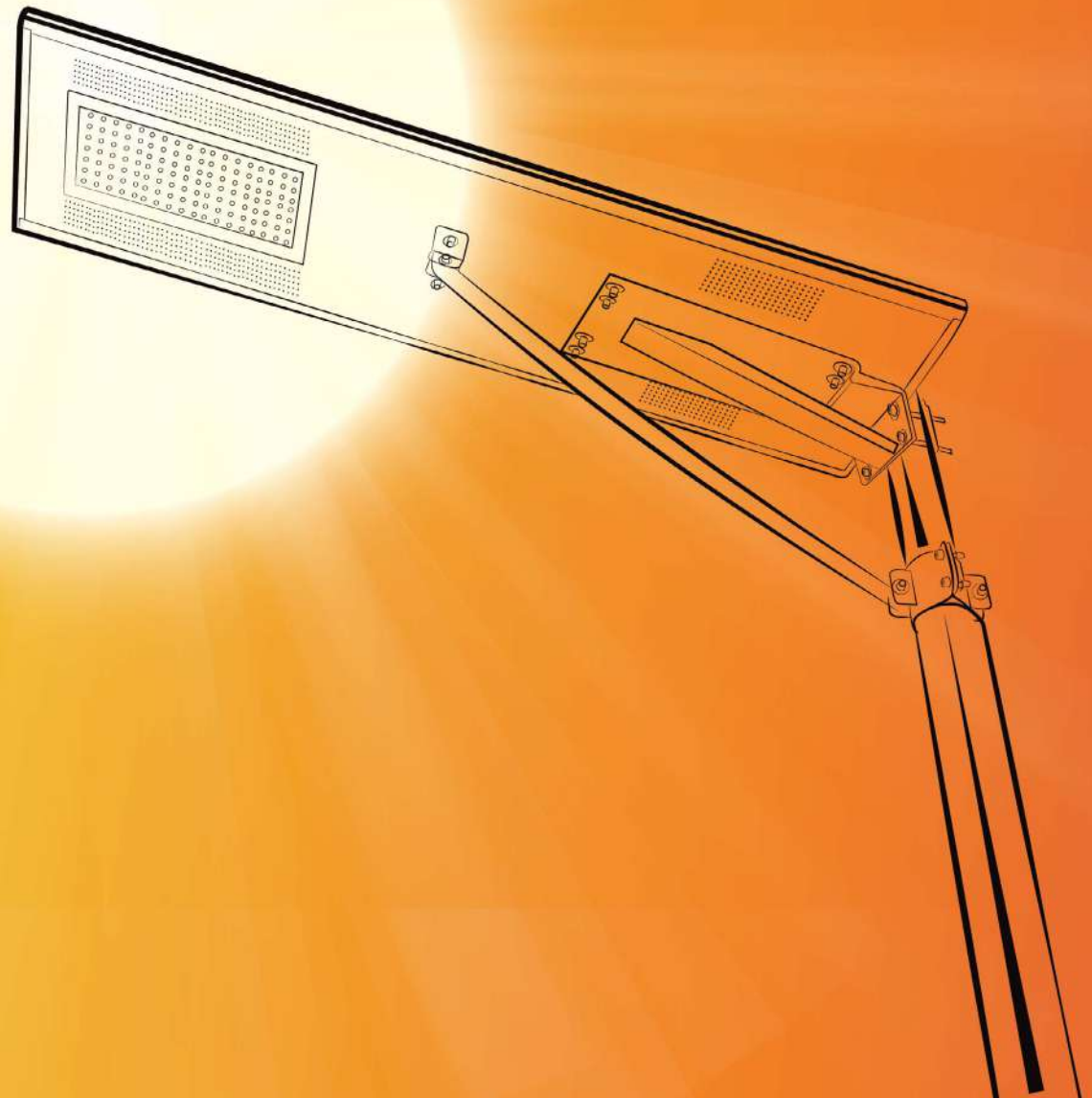




[all-in-one]

Integrated Solar Streetlights



SolaRISETM++



SolaRISETM

RISE above the Conventional

Solar Streetlights have gone through many steps of transformation. Every advancement in technology has made these streetlights more efficient and reliable in operation. Wipro SolaRISE drives this journey of evolution further with latest range of streetlights, designed for the modern infrastructure in the country.

[all-in-one]
INTEGRATED SOLAR STREETLIGHTS

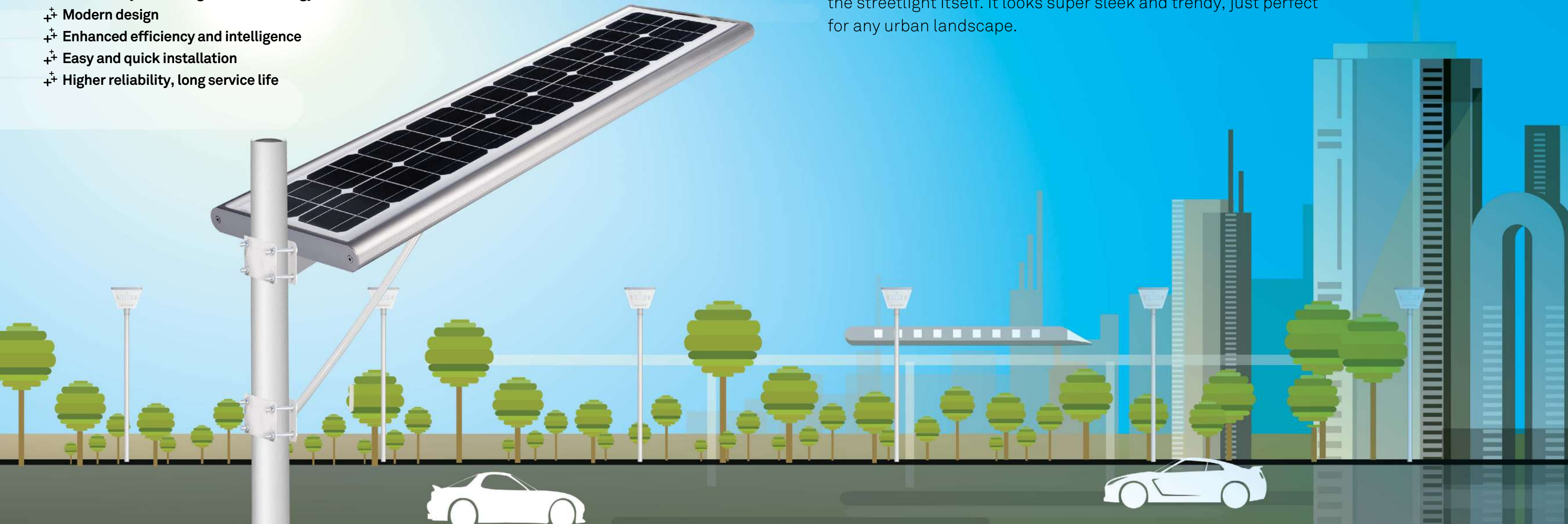
[all-in-one]

INTEGRATED SOLAR STREETLIGHTS

integrated smart design,
reliable operation

- + Ecofriendly with integrated technology
- + Modern design
- + Enhanced efficiency and intelligence
- + Easy and quick installation
- + Higher reliability, long service life

All-in-one Streetlights make solar solutions more efficient and easy to adapt. No longer you have the bulky solar photo voltaic (PV) panel and lead acid battery box mounted on the poles along with the streetlight. Integrated as one single unit, this solar streetlight houses all the components like the solar PV panel, charge controller, driver and battery inside the streetlight itself. It looks super sleek and trendy, just perfect for any urban landscape.



[all-in-one]

INTEGRATED SOLAR STREETLIGHTS

intelligent & future-ready

Designed as renewable and independent green energy streetlight for smart cities. As a family for next-gen solar luminaires, all-in-one streetlights are far more efficient and also reliable in operation. They use specially designed mono crystalline photo voltaic panels to enhance the energy generation, have better battery life and are smart and intelligent, which helps optimize the energy usage.

Intelligent Control Module & Sensor

The efficiency of the streetlights is maximised using a sensor and an intelligent controller which are programmed to regulate the light output depending on movement detection or time schedule.

The streetlight usually operates at 100% intensity and dims to 30% when no movement is detected. Time schedule model operates on 100% intensity for first 3 hours, 65% intensity for next 2 hours and for rest of the time at 30% intensity.

LED

High efficiency, long-life LEDs use special lenses providing better optics and street lighting distribution. Available in different wattages, these streetlights are perfectly suited for a variety of applications.

Maximum Power Point Tracking (MPPT) Charge Controller

Innovative MPPT technology ensures maximum performance and yield from solar system. It helps extract maximum available power from PV module and significantly extend battery life-span.



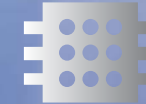
Mono-crystalline Silicone Solar Panel

The mono crystalline panel's top efficiency, enhances the energy conversion in the streetlight. It helps in faster charging and increasing the overall efficiency.



Lithium Ferro-Phosphate Battery

The streetlights use high power compact design high performance lithium ferro phosphate batteries which are tested to perform under high temperatures. These also have higher lifespan of upto 2000 cycles as compared to the regular offering around 500 to 1000 charging cycles.



[all-in-one]

INTEGRATED SOLAR STREETLIGHTS

intelligent controls, enhanced savings



During daytime, solar energy is absorbed by the PV panel and transferred to the intelligent controller. Controller converts it into electrical energy and charges the batteries.



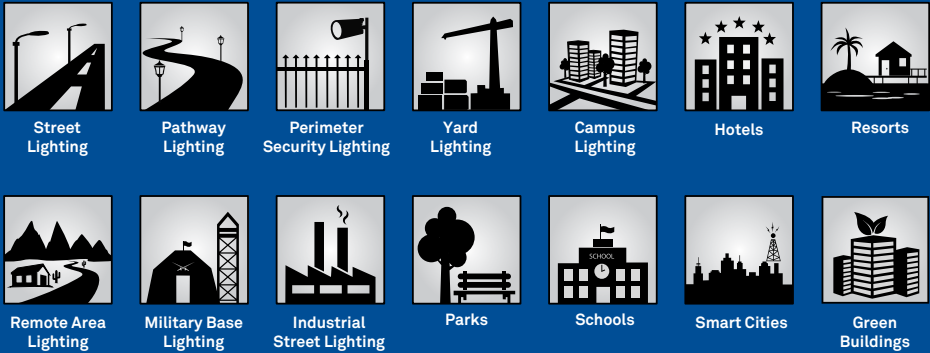
Controller detects darkness and illuminates the LEDs. The controller also regulates the intensities of the LEDs based on the programmed algorithms.



The sensor detects movement and increases the intensity of the LEDs creating a safe and effective lighting environment.

APPLICATION AREAS

Better technology, sleek design and superb efficiency make all-in-one Solar Streetlights suitable for many lighting applications. With a wide range of wattages, these streetlights adapt to various areas and deliver a clean and green solution.



[all-in-one]

INTEGRATED SOLAR STREETLIGHTS

12W

All-in-one integrated Solar Streetlight with PIR Sensor

SPECIFICATIONS

- Aesthetic and compact design in extruded aluminium construction
- 20Wp monocrystalline silicon panel
- 12W high efficiency SMD LED, CRI >80, lighting system efficiency upto 120 Lm/W
- CCT – 6000°K to 6500°K
- Secondary lens optics for streetlighting application
- 12.8V 12Ah Lithium Ferro Phosphate (LifePo4) battery
- Full Power upto 12 hrs
- Saving mode upto 48 hrs
- Integral PIR sensor
- MPPT charge controller with 90 to 96% efficiency

INSTALLATION

Recommended to be mounted on pole height 3-4 M
Suitable for external pipe dia of 40 – 100mm

- * Also available in other CCT options.
- * Hybrid (AC-DC) option available on request.



IP 65

IP66 is available on request

ELECTRICAL DATA

System Voltage	12V/24V
Output Power	50W/12V, 100W/24V
Output Current	0.15A – 3.3A
No load loss	9mA/12V, 12mA/24V
Charging Current	15A
Solar Input Voltage	<55V
Over Voltage Protection	16V, x 2/24V
Charging Voltage Limit	15.5V, x2/24V

PRODUCT CODE & DIMENSIONS

LR14-141-XXX-65-XX	12W	550 x 310 x 45 mm
All dimensions are in mm. Tolerance: ± 2mm		

Solar & LED are ever improving & evolving technologies. Wipro is committed to bring you the best in Solar & LED technologies.

[all-in-one]

INTEGRATED SOLAR STREETLIGHTS



All-in-one integrated Solar Streetlight with PIR Sensor

SPECIFICATIONS

- Aesthetic and compact design in extruded aluminium construction
- **15W / 18W / 20W/ 25W** – 30Wp/ 35Wp/ 40Wp/ 50Wp monocrystalline silicon panel respectively
- **15W / 18W / 20W/ 25W** – 12.8V 13Ah/ 16Ah/ 21Ah/ 22Ah Lithium Ferro Phosphate (LifePo4) battery respectively
- High efficiency SMD LEDs with CRI >80, lighting system efficiency upto 120 Lm/W, CCT – 6000°K to 6500°K
- Secondary lens optics for streetlighting application
- Full Power upto 12 hrs, Saving mode upto 48 hrs
- Integral PIR sensor
- MPPT charge controller with 90 to 96% efficiency

INSTALLATION

Pole Height Recommendations:
15W | 3-4m | 18W and 20 W | 5-6m | 25W | 6-7m
Suitable for external pipe dia of 40 to100 mm

* Also available in other CCT options.
* Hybrid (AC-DC) option available on request.



Compatible with mobile app

IP 65

IP66 is available on request

ELECTRICAL DATA		PRODUCT CODE & DIMENSIONS		
System Voltage	12V/24V	LR14-221-XXX-65-XX	15W	650 x 310 x 45 mm
Output Power	50W/12V, 100W/24V	LR14-281-XXX-65-XX	18W	650 x 310 x 45 mm
Output Current	0.15A – 3.3A	LR14-301-XXX-65-XX	20W	960 x 310 x 45 mm
No load loss	9mA/12V, 12mA/24V	LR14-361-XXX-65-XX	25W	960 x 310 x 45 mm
Charging Current	15A	All dimensions are in mm. Tolerance: ± 2mm		
Solar Input Voltage	<55V			
Over Voltage Protection	16V, x 2/24V			
Charging Voltage Limit	15.5V, x2/24V			

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[all-in-one]

INTEGRATED SOLAR STREETLIGHTS



All-in-one integrated Solar Streetlight with PIR Sensor

SPECIFICATIONS

- Aesthetic and compact design in extruded aluminium construction
- **30W** | 60Wp monocrystalline silicon panel & 30W LED
- **40W** | 80Wp monocrystalline silicon panel & 40W LED
- **30W** | 12.8V 28Ah Lithium Ferro Phosphate (LifePo4) battery
- **40W** | 12.8V 35Ah Lithium Ferro Phosphate (LifePo4) battery
- High efficiency SMD LEDs with CRI >80, lighting system efficiency upto 120 Lm/W, CCT – 6000°K to 6500°K
- Full Power upto 12 hrs; Saving mode upto 48 hrs
- Secondary lens optics for streetlighting application
- Integral PIR sensor
- MPPT charge controller with 90 to 96% efficiency

INSTALLATION

Pole Height Recommendations:
30W | 6-7m | 40W | 6-7m
Suitable for external pipe dia of 40 to100 mm

* Also available in other CCT options.
* Hybrid (AC-DC) option available on request.



Compatible with mobile app

IP 65

IP66 is available on request

ELECTRICAL DATA		PRODUCT CODE & DIMENSIONS	
System Voltage	12V/24V	LR14-441-XXX-65-XX	30W
Output Power	50W/12V, 100W/24V		1210 x 340 x 45 mm
Output Current	0.15A – 3.3A	LR14-591-XXX-65-XX	40W
No load loss	9mA/12V, 12mA/24V		1210 x 340 x 45 mm
Charging Current	15A	All dimensions are in mm. Tolerance: ± 2mm	
Solar Input Voltage	<55V		
Over Voltage Protection	16V, x 2/24V		
Charging Voltage Limit	15.5V, x2/24V		

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[all-in-one]

INTEGRATED SOLAR STREETLIGHTS



ALL-IN-ONE Solar Streetlights

SPECIFICATIONS

- Aesthetic and compact design in extruded aluminium construction
- **50W** | 80Wp monocrystalline silicon panel & 50 W LED
- **60W** | 90Wp monocrystalline silicon panel & 60 W LED
- **50W** | 12.8V 44Ah Lithium Ferro Phosphate (LifePo4) battery
- **60W** | 12.8V 52Ah Lithium Ferro Phosphate (LifePo4) battery
- High efficiency SMD LED with CRI >80, lighting system efficiency upto 120 Lm/W, CCT – 6000° K to 6500°K
- Full Power upto12 hrs; Saving mode upto 48 hrs
- Secondary lens optics for streetlighting application
- MPPT charge controller with 90 to 96% efficiency

INSTALLATION

Pole Height Recommendations:

50W | 6-7m | 60W | 6-7m

Suitable for external pipe dia of 40 to100 mm

- * Also available in other CCT options.
- * Hybrid (AC-DC) option available on request.



Compatible with mobile app

IP 65

IP66 is available on request

ELECTRICAL DATA

System Voltage	12V/24V
Output Power	50W/12V, 100W/24V
Output Current	0.15A – 3.3A
No load loss	9mA/12V, 12mA/24V
Charging Current	15A
Solar Input Voltage	<55V
Over Voltage Protection	16V, x 2/24V
Charging Voltage Limit	15.5V, x2/24V

PRODUCT CODE & DIMENSIONS

LR14-721-XXX-65-XX	50W	1210 x 455 x 45 mm
LR14-841-XXX-65-XX	60W	1210 x 455 x 45 mm
All dimensions are in mm. Tolerance: ± 2mm		

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[all-in-one]

INTEGRATED SOLAR STREETLIGHTS



ALL-IN-ONE Solar Streetlights

SPECIFICATIONS

- Aesthetic and compact design in extruded aluminium construction
- 150Wp monocrystalline silicon panel & 120 W LED
- 12.8V 90Ah Lithium Ferro Phosphate (LifePo4) battery
- High efficiency SMD LED with CRI >80, lighting system efficiency upto120 Lm/W, CCT – 6000° K to 6500°K
- Full Power upto 12 hrs; Saving mode upto 48 hrs
- MPPT charge controller with 90 to 96% efficiency
- Secondary lens optics for streetlighting application

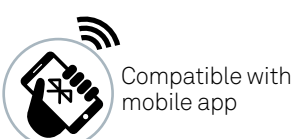
INSTALLATION

Pole Height Recommendations:

120W | 9-12m

Suitable for external pipe dia of 40 to100 mm

- * Also available in other CCT options.
- * Hybrid (AC-DC) option available on request.



Compatible with mobile app

IP 65

IP66 is available on request

ELECTRICAL DATA

System Voltage	12V/24V
Output Power	50W/12V, 100W/24V
Output Current	0.15A – 3.3A
No load loss	9mA/12V, 12mA/24V
Charging Current	15A
Solar Input Voltage	<55V
Over Voltage Protection	16V, x 2/24V
Charging Voltage Limit	15.5V, x2/24V

PRODUCT CODE & DIMENSIONS

LR14-172-XXX-65-XX	120W	1670 x 455 x 45mm
All dimensions are in mm. Tolerance: ± 2mm		

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[standalone]

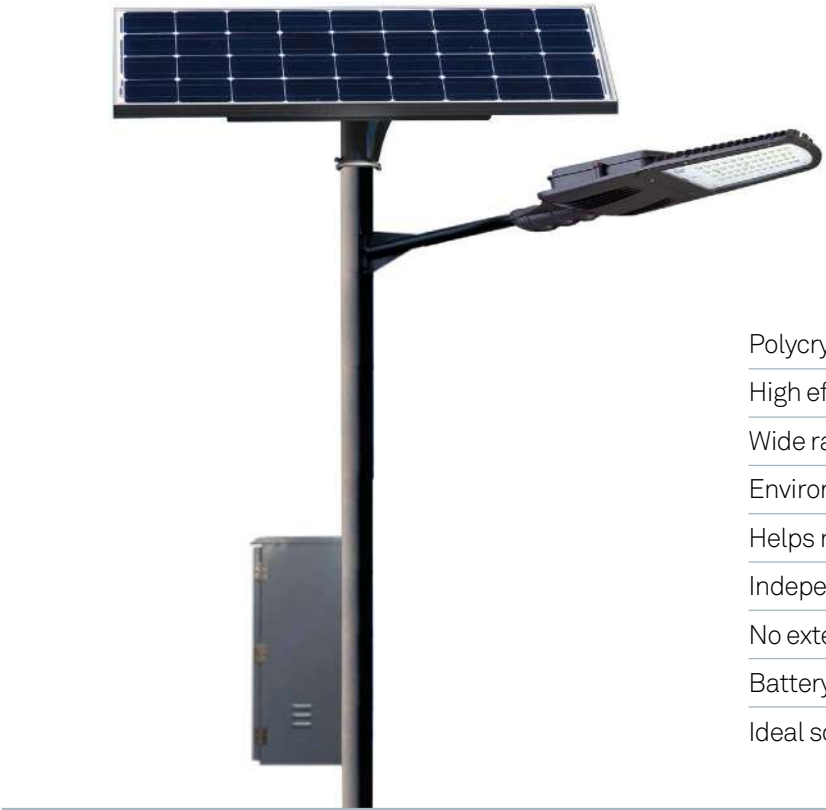
SOLAR STREETLIGHTS

Increasing awareness about Solar Energy has directly impacted its popularity and acceptance. Solar Streetlight is a reliable solution for many applications where dependency on electric grids is a concern. Solar powered lighting is therefore ideal for illuminating these remote areas where the electricity is unavailable or erratic. Even in urban areas, these find great usage to reduce dependency on conventional power and contribute towards green energy.



[standalone]

SOLAR STREETLIGHTS



- Polycrystalline solar cells
- High efficiency driver and MPPT charge controller
- Wide range of LED streetlights to choose from
- Environment friendly, fully renewable and powered using solar energy
- Helps reduce carbon foot prints
- Independent systems. Easy to maintain and install
- No external cabling or trenching required
- Battery backup for cloudy or rainy days
- Ideal solution for rural and remote areas where power lines are not available

IP 65

Solar Streetlight Wattage [W]	System Lumen Output [Lm/W]	System Voltage [V]	Charge Controller	2 Day Autonomy		3 Day Autonomy		Pole Height above ground [m]
				PV Panel [Wp]	Battery LMLA [Ah]	PV Panel [Wp]	Battery LMLA [Ah]	
12	1200	12V	PWM	60	30	60	40	3-4
15	1500	12V	PWM	75	40	75	60	4-5
20	2000	12V	MPPT	80	60	80	75	5-6
25	2500	12V	MPPT	100	60	100	80	6-7
30	3000	12V	MPPT	120	75	120	100	6-7
40	4000	12V	MPPT	160	100	160	120	6-7
50	5000	24V	MPPT	200	120	200	160	6-7
60	6000	24V	MPPT	240	150	240	200	6-7 Oct*
70	7000	24V	MPPT	300	160	300	240	6-7 Oct*
80	8000	24V	MPPT	375	200	375	300	6-7 Oct*
90	9000	24V	MPPT	400	240	400	320	6-7 Oct*

*LMLA: Low Maintenance Lead Acid | *PV : Photo-Voltaic | * Oct: Octagonal

WIPRO SolARISE ADVANTAGE

Rise above the conventional with solar power generation

- Eco-sustainable, green and efficient
- Technical expertise with design & innovation
- Capability to service multi-locational installations
- Service Commitment - 19 branches and over 400 dedicated stockists
- Trustworthiness and reliability of Wipro



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