



[all-in-one]

INTEGRATED SOLAR STREETLIGHTS



SolaRISE⁺⁺



SolaRISE

RISE above the Conventional

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INTEGRATED SOLAR STREETLIGHTS

Solar Streetlights has 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.



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INTEGRATED SOLAR STREETLIGHTS

integrated smart design, reliable operation

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 street light. Integrated as one single unit, this solar streetlight houses all the components light  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.

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





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INTEGRATED SOLAR STREETLIGHTS

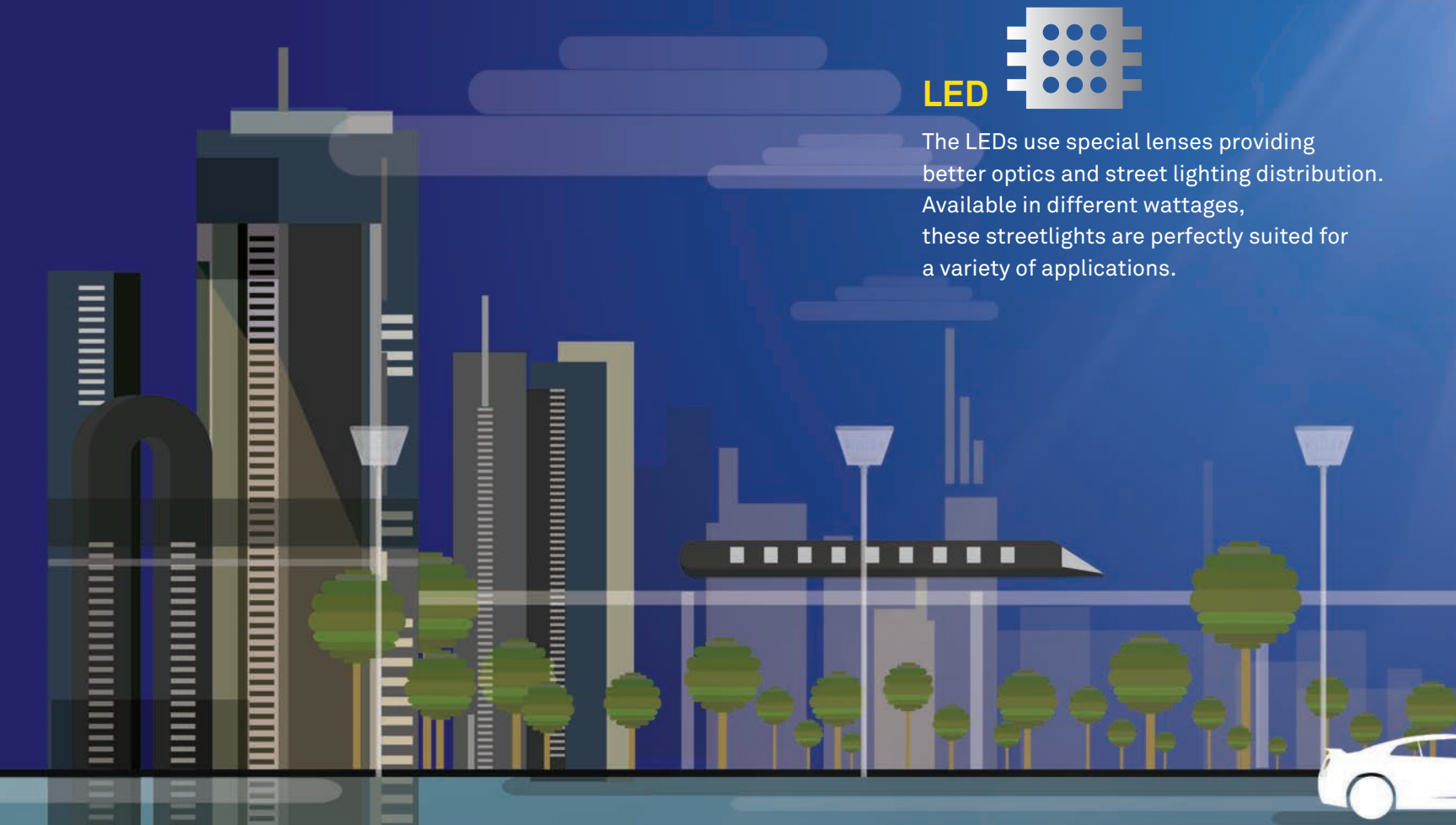
intelligent & future-ready

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 photovoltaic panels to enhance the energy generation, have better battery life and are smart and intelligent, which helps optimize the energy usage.

LED




The 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.





Mono-crystalline Silicone Solar Panel


The mono crystalline panel  efficiency, enhances the energy conversion rate 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 iron 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.

Intelligent Controller and 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  and time schedule.

The streetlight usually operates on 30% intensity, and glows with full intensity when the sensors detect movement.

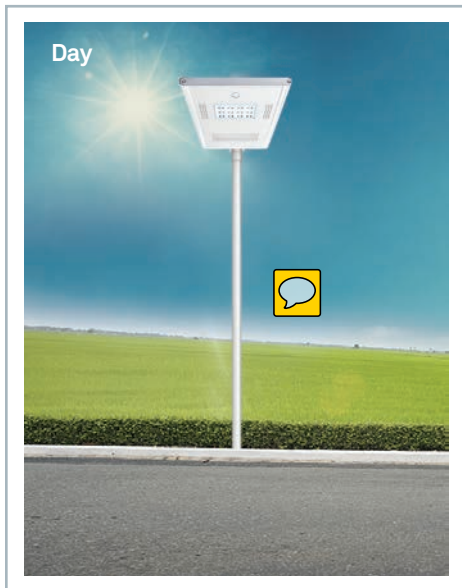
Time schedule model operates on 100% intensity for first 3 hours, 65X intensity for next 2 hours and for rest of the time at 30X intensity.



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INTEGRATED SOLAR STREETLIGHTS

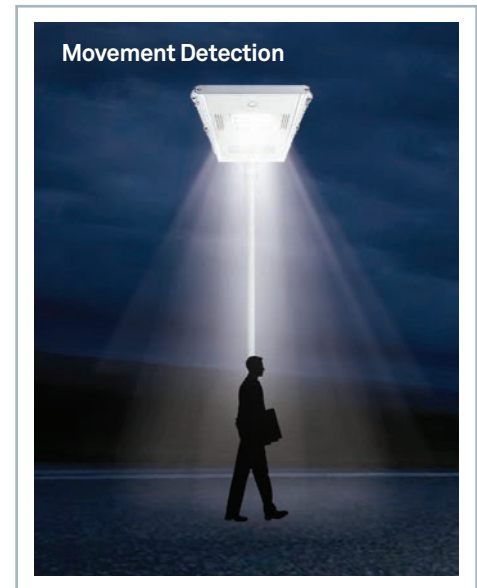
intelligent controls, enhanced savings



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.



Street Lighting



Pathway Lighting



Perimeter Security Lighting



Yard Lighting



Campus Lighting



Hotels



Resorts



Remote Area Lighting



Military Base Lighting



Industrial Street Lighting



Parks



Schools



Smart Cities



Green Buildings

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INTEGRATED SOLAR STREETLIGHTS

12W

ALL-IN-ONE Solar Streetlights with integral PIR sensor

SPECIFICATIONS

Aesthetic and compact design in extruded aluminium construction
20W monocrystalline silicon panel
12W high efficiency SMD LED, CRI >80, lighting efficiency upto 120 Lm/W
CCT – 6000 to 6500 Deg 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

* Hybrid (AC-DC) option available on request.



IP65

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

DIMENSIONS

495 x 355 x 80 mm

All dimensions are in mm. Tolerance: ± 2mm

INSTALLATION

Recommended to be mounted on pole height 3-4 M

Suitable for external pipe dia of 40 – 100mm

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INTEGRATED SOLAR STREETLIGHTS

15W

18W

20W

25W

ALL-IN-ONE Solar Streetlights with integral PIR sensor

SPECIFICATIONS

Aesthetic and compact design in extruded aluminium construction

15W | 30W monocrystalline silicon panel & 13Ah Lithium Ferro Phosphate (LifePo4) battery

18W | 35W monocrystalline silicon panel & 16Ah Lithium Ferro Phosphate (LifePo4) battery

20W | 40W monocrystalline silicon panel & 21Ah Lithium Ferro Phosphate (LifePo4) battery

25W | 50W monocrystalline silicon panel & 22Ah Lithium Ferro Phosphate (LifePo4) battery

CRI >80, lighting efficiency upto 120 Lm/W, CCT – 6000 to 6500 Deg 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

Pole Height Recommendations:

15W | 3-4m | 18W and 20 W | 5-6m | 25W | 7-8m

Suitable for external pipe dia of 40 to 100 mm

* Hybrid (AC-DC) option available on request.



IP65

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

LR14-221-XXX-65-XX	15W	495 x 355 x 80 mm
LR14-281-XXX-65-XX	18W	740 x 305 x 140 mm
LR14-301-XXX-65-XX	20W	940 x 305 x 140 mm
LR14-361-XXX-65-XX	25W	960 x 310 x 50 mm

All dimensions are in mm. Tolerance: ± 2mm

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INTEGRATED SOLAR STREETLIGHTS



ALL-IN-ONE Solar Streetlights with Integral PIR sensor

SPECIFICATIONS


Aesthetic and compact design in extruded aluminium construction

30W | 60W monocrystalline silicon panel & 30 [15x2] W LED

40W | 80W monocrystalline silicon panel & 40 [20x2] W LED

CRI >80, lighting efficiency upto 120 Lm/W, CCT – 6000 to 6500 Deg K

30W | 12.8V 28Ah Lithium Ferro Phosphate (LifePo4) battery

40W | 12.8V 35Ah 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

Pole Height Recommendations:

30W | 6-7m | 40W | 6-7m

Suitable for external pipe dia of 40 to 100 mm

* Hybrid (AC-DC) option available on request.



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

LR14-441-XXX-65-XX	30W	1120 x 305 x 140 mm
LR14-591-XXX-65-XX	40W	1120 x 305 x 140 mm

All dimensions are in mm. Tolerance: ± 2mm



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INTEGRATED SOLAR STREETLIGHTS



ALL-IN-ONE Solar Streetlights

SPECIFICATIONS

Aesthetic and compact design in extruded aluminium construction

50W | 80W monocrystalline silicon panel & 50 W LED

60W | 90W monocrystalline silicon panel & 60 W LED

CRI >80, lighting efficiency upto 120 Lm/W, CCT – 6000 to 6500 Deg K

50W | 12.8V 44Ah Lithium Ferro Phosphate (LifePo4) battery

60W | 12.8V 52Ah Lithium Ferro Phosphate (LifePo4) battery

Full Power upto 12 hrs; Saving mode upto 48 hrs

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 to 100 mm

* Hybrid (AC-DC) option available on request.



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	1120 x 440 x 140 mm
LR14-841-XXX-65-XX	60W	1120 x 440 x 140 mm
All dimensions are in mm. Tolerance: ± 2mm		

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INTEGRATED SOLAR STREETLIGHTS

120W

ALL-IN-ONE Solar Streetlights

SPECIFICATIONS

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

INSTALLATION

- Pole Height Recommendations:
120W | 9-12m
- Suitable for external pipe dia of 40 to 100 mm

* Hybrid (AC-DC) option available on request.



IP65

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 465 x 45 mm
All dimensions are in mm. Tolerance: ± 2mm		

[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.

No	Solar Streetlight Wattage [W]	System Lumens Output [Lm]	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]	
1	12	1200	12V	PWM	60	30	60	40	3-4
2	15	1500	12V	PWM	75	40	75	60	4-5
3	20	2000	12V	MPPT	80	60	80	75	5-6
4	25	2500	12V	MPPT	100	60	100	80	6-7
5	30	3000	12V	MPPT	120	75	120	100	6-7
6	40	4000	12V	MPPT	160	100	160	120	6-7
7	50	5000	24V	MPPT	200	120	200	160	6-7
8	60	6000	24V	MPPT	240	150	240	200	6-7
9	70	7000	24V	MPPT	300	160	300	240	6-7
10	80	8000	24V	MPPT	375	200	375	300	6-7
11	90	9000	24V	MPPT	400	240	400	320	6-7

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 accounts
- Service Commitment - 19 branches and over 400 dedicated stockists
- Trustworthiness and reliability of Wipro



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