

**Solar Street Lighting,
Solar Park/Garden Lighting,
Solar Parking/Area Lighting**



**Brought to you by,
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***'It is not important if you can predict the future or not,
it is important that you are prepared for the future'***

– Perikles





Increasingly, the world over, people are making a transition from conventional energy sources to Solar Power because they find it more efficient, more economical and environment-friendly. In India, solar rays are an abundant energy source. Many premises are exposed annually to more than 50 times of energy from the Sun than they use in form of electricity or gas. About 12 billion electric lights on the planet use the most common electric bulbs. So, lighting up the world consumes about 2 trillion kilowatt-hours annually, or one-eighth of all electric power. This takes a lot of fuel: the equivalent of nearly a billion tons of coal annually. Conventional energy sources such as these have resulted in issues such as global warming. Considering it to be an alarm, it's time we shift to renewable sources of energy for our personal as well as business needs. SolarMaxx Solar Lights can be used anywhere the sun shines!

SolarMaxx Solar Lights feature the revolutionary LED based lights that are extremely **bright, long-life, durable and maintenance free**. LED delivers a lot more lumens per watt than a light bulb or a CFL when properly applied such as in SolarMaxx Solar Lights. **LED's are environment-friendly and leave virtually no carbon emissions**, thereby contributing to a greener future.

SolarMaxx Solar Street Lights are a break-through in outdoor-lighting arena. Not only have we designed lights to match varied roads, areas and street-lighting needs we have also used **extremely long life, zero maintenance Solar panels, batteries and custom design poles** that withstand all weather conditions, storms and monsoons.

Flyovers or bridges, highways or city roads, townships or hotels, city parks or gardens - the application of these lights is endless. A cost effective investment for years, these lights come in a number of specification, designs, height and colours to meet your expectations.



* Features, design, specifications, etc are subject to change without notice.

Salient Features

- Contains **high power LEDs**
- **Luminary:** High pressure Aluminium Die cast
- **Optics:** Suitable optical lenses
- **Controller:** Automatic Dusk to Dawn micro-controller
- **Ingress Protection :** IP-65 luminary
- **LED Life Span:** > 50,000 hours

Products – SM40, SM60, SM74

- **Input Voltage:** 12V DC
- **Input Power:** 12W, 15W, 18W
- **Power LEDs:** 9, 12, 14 Nos.
- **Light output:** 150 Lumens/W
- **Solar Panel:** 40, 60, 74W Crystalline
- **Battery:** 42, 65, 75aH SMF
- **Autonomy:** 3 Nights
- **Mounting Pole :** 4.5 - 5.0m

Customization can be done on order.

A brief comparison of various sources of light

| Light Source | FTL | Mercury | Sodium | CFL | LED |
|------------------------------|--------------|--------------|-------------|--------------|--------------|
| Lumens/Watt | 60-90 | 50-65 | 65-105 | 50-70 | 125-150 |
| CCT | 4,000-5,500 | 3,000-4,500 | 1800-2500 | 3400-6500 | 4000-6500 |
| Rated Life | 4,000 Hrs | 4,000 Hrs | 4,000 Hrs | 5,000 Hrs | >50,000 Hrs |
| Driver/Choke Life | 10,000 Hrs | 10,000 Hrs | 10,000 Hrs | 10,000 Hrs | >50,000 Hrs |
| Eco-Friendly | Mercury Used | Mercury Used | Sodium Used | Mercury Used | Eco-Friendly |
| Potential for carbon-Credits | No | No | No | Yes | Yes |

Advantages of Solar + LED combination

- Significant cost savings by **avoiding laying down underground electrical wires** and distribution points.
- **High durability** of solar modules and LEDs. Life expectancy for more than 10 years. Conventional lamps typically require replacement at least once every year
- Quick and easy installation
- **Zero electricity cost**
- **80% depreciation benefits** for businesses
- **Environment friendly**
- Higher color temperature of light (purer form of light)
- **Cleaner and Greener environment to breathe!**



Technical Parameters

Light output:

1. As per No. of LEDs
2. Reflow soldered OSRAM LEDs with cool white light output
3. 150 lm/LED at 350mA
4. Asymmetric lenses for optimal spread on streets
5. Auto power saving mode after 6 hours of operation for upto 50% of savings for longer life

Electronics:

6. Microcontroller based smart charge controlling
7. Constant Current driver. Driver efficiency > 90%
8. Reverse polarity protection without the use of fuse
9. Parallel back up LED pads with each LED to allow replacement of individual LEDs in case one of them fails

Physical Luminary:

10. Aluminium die cast body with toughened glass front
11. Single piece MCPCB covering the entire aluminium body for good thermal management to increase the life of LEDs
12. LED junction temperature does not exceed 75°C

Contact:

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