

SOLAR STREET LIGHTS



A standalone solar photovoltaic street lighting system comprises a compact fluorescent lamp lead acid battery, PV module/modules, control and control electronics, inter-connecting wires /cables, Module mounting hardware, Battery box, and Operation instruction manual. We are offering Solar Street Lights.

These Models are available with CFL lights / LED Lights. An option of One light / Two lights. the module and battery size changes with the requirement of end user.

FEATURES

- ❖ High Efficiency Crystalline Solar Modules
- ❖ Low Maintenance Long Life Tubular Plate Flooded Battery
- ❖ Inbuilt High Efficiency Dusk To Dawn Solar Charge Controller With Inverter
- ❖ All Weather Rugged Pole With Structure Designed To Operate At High Wind Velocity.
- ❖ Pole Designed With Adjustable Tilt Angle To Mount The Solar Suitable For Any Location.
- ❖ Complete Cables And Accessories Supplied With The System.
- ❖ Automatic Dust To Dawn Operation.
- ❖ Highly Reliable Stand Alone System
- ❖ Easy To Install & Maintain.
- ❖ 5 Days Autonomy With Operation In Cloudy Days.
- ❖ Attractive & Reliable Luminary Housing Suitable For Outdoor Application

APPLICATIONS

- ❖ Street Lights For Villages
- ❖ Housing Societies And Apartments
- ❖ Corporate/ Industry Parks And Gardens.
- ❖ Schools
- ❖ Hospitals
- ❖ Farms
- ❖ Adivasi Settlements And Other Remote Areas
- ❖ Resorts, Hotels And Farmhouses
- ❖ Tribal Welfare Departments
- ❖ Animal Farms And Poultry Industry
- ❖ Fields And Greenhouses
- ❖ Govt. Forest Departments

SOLAR - WIND HYBRID POWER GENERATION SYSTEM



SURYA is committed to promote new solar technologies to meet future energy needs. Stand-alone hybrid systems based on a combination of various renewable energy sources like wind, solar and biomass etc. with each other are covered under the scheme. The hybrid systems will be designed to meet the annual load requirement with optimum use of resources. The rated capacity of individual aero generator unit that can be used in a hybrid system will be to a maximum of 30 KW each.

Wind: Micro wind turbines, light in weight, mounted on own tower or telecom tower at the height of 20 to 35 meters. Wind turbines are sized optimally to generate full day's power, round the clock (depending on wind speed) they also generate at peak capacity in monsoon, when solar does not work. One or more multiple turbines will be used depending on load requirements.

Solar: Solar module of adequate capacity to provide and supplement power during low wind season.

Battery: A deep cycle tubular battery bank with one to three days autonomy is used to store the power and supply to the equipment. The battery has a life of 1200 cycles at 80% DOD or 7-10 years.

Master Controller: A master controller consisting of solar charge controller, wind charge controller/multiple controllers, over & under voltage protection and continues metering and display by micro controller for power input & output.

Site Selection Criteria: The site should be free from the obstacles like tall trees, high buildings, electric transmission lines etc. within the radius of about 100 meters.