

18 W SOLAR STREET LIGHTS:

18 watt solar PV light is best solar solution to illuminate gardens, grounds etc. The specifications of 18 watt solar light is as mentioned below.

Particular	Description
Solar Light	18 watt
No.of units	6 Nos.
Solar Panel	75 watt
Solar Battery	60 AH (Lithium)
GI Pole	5 Meter
Charge Controller	12 volt inbuilt
Sensor	Dusk to Dawn inbuilt
Accessories	Panel structure, wire, connectors nut bolts etc.
Backup Time	24 hours
Warranty	5 years for complete and 25 years for solar panel .

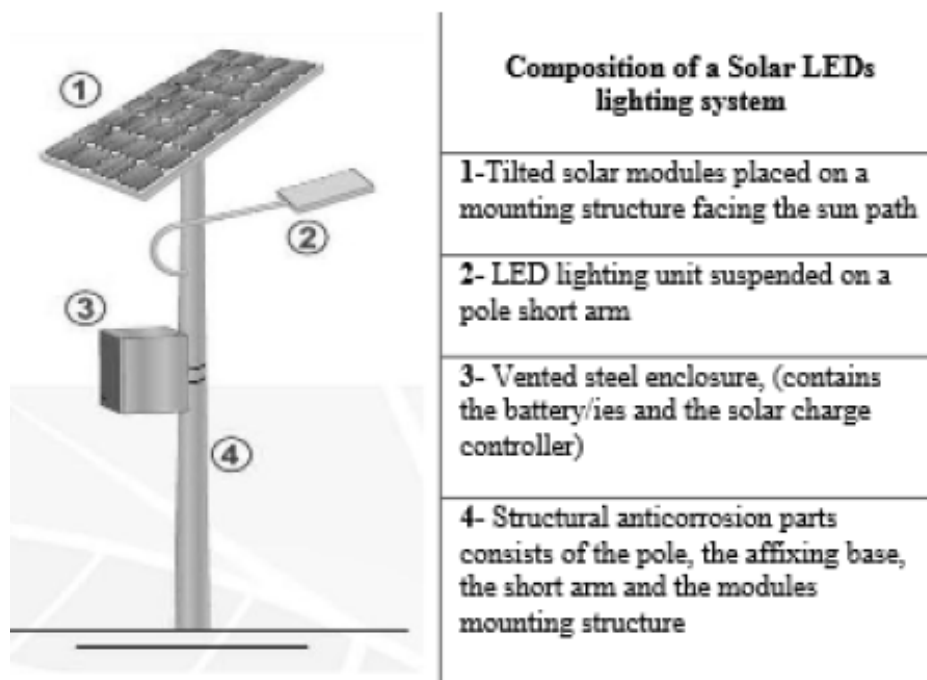


Figure 1: Solar Street Light

A basic solar powered LED street light system components are:

1. Solar Panel or Photovoltaic Module
2. Lighting Fixture – LED lamp set
3. Rechargeable Deep Cycle Battery
4. Solar Charge Controller
5. Light Pole

The Solar Panel will provide electricity to charge the battery during day time. The battery's charging is controlled by a charge controller. The operation of the LED bulb is controlled by a control circuit either by using sensors such as Light Dependent Resistor (LDR) or voltage or current sensor. All these components will be fixed on a pole as shown in Figure 1 below. The solar panel is mounted at the top of the pole to minimize the possibility of any shading on the panels.