

Solar Street Light – CFL

Solar Street lighting system is a device that operates using the light energy available from sun to provide lighting during night time. Solar PV Street lighting is a reliable, efficient and an ideal lighting system for the illumination of streets, squares and cross roads located in areas that are not connected to the power grid. This fully integrated system combines the latest and most innovative technologies available. Fully assembled factory tested kits are available with or without mounting poles.

Elumina - 11

Elumina-11 is the stand alone Solar Street lighting system comprises of one Solar Street light Luminary using Compact Fluorescent Lamp (CFL) of 11W as light source, Rechargeable lead acid battery for storage, PV modules for charging the battery, suitable electronics for the operation of the lamp and safe charging and discharging of the battery and mechanical hardware for fixing these sub systems.

Advantages:

Reduces Air and Water Pollution: Solar energy creates absolutely no pollution. This is perhaps the most important advantage that makes solar energy so much more practical than oil. Oil burning releases harmful greenhouses gases, carcinogens and carbon dioxide into our precious air.

Very little maintenance is required to keep solar cells running. There are no moving parts in a solar cell, which makes it impossible to really hurt them. Solar cells tend to last a good long time with only an annual cleaning to worry about.

Up to four times more efficient Compact Fluorescent Lights (CFLs) are using 50 to 80 percent less energy and last up to 10 times longer than incandescent bulbs. 11-watt CFL has about the same light output as a 50-watt incandescent bulb.

Features

- More than 3 days of autonomy
- Automatic Dusk to Dawn operation
- No Strains & Pains of Manual Operation
- Highly efficient charge controller and Inverter
- MNRE approved Model
- Weather proof IP65 Rated luminary
- UV stabilized Nylon Housing
- Unbreakable Polycarbonate Dome



11 watts Solar CFL Street Light
Elumina – 11

Technical Specifications:

Model No.	Elumina – 11 watt
General	
Application	Solar powered outdoor lighting
Duty Cycle	8 hours
System Voltage	12 Volt DC
Number of Days of autonomy	2 - 3 days
SPV Module	
Module Type	Mono / Poly Crystalline Silicon
Module Power @ 16.4V	60 – 75 watt panel
Open Circuit Voltage	>/= 21 volt
Battery	
Type	VRLA SMF Lead Acid, Flooded Lead Acid
Battery Voltage	12 volt
Battery Capacity	60 – 75 AH
Battery Box	Fire Resistant, Acid – Proof, Hi – Strength, UV – Proof Nylon body
Luminary	
Lamp Type	11 watt Compact Fluorescent Lamp, 4 Pin, Single U
Rated Light output (Lumens)	900 (+ - 5%)
Lamp Color Temperature	5200K Day light
Rated Lamp average life	8000 Hrs approx
Inverter Type	Quasi Sine Wave
Inverter Frequency	24-28 Hz
Inverter Efficiency	> %80
Lamp Starting	Soft Start
Preheating Time	<5 seconds
Power Consumption @ 12V DC	13.5watt (+ - 10%)
Charge Controller	
Charge Controller Type	Electronically Regulated PWM boost and float charge
Charging Current	6A Max
Charge Controller Efficiency	>92%
Idle Consumption	<4ma
Indication	Charging and Low battery
Protection	Overcharge, Deep Discharge, Reverse polarity, Module reverse current flow, overload
Connecting Wires	
Module Wire	2.5 mm ² with terminals
Battery to light unit wire	2.5 mm ² wire with terminals
Sensing Wire	0.5 mm ² wire with terminals
Pole	
Height	4.5 Meters
Diameter	3"
Material	Galvanised Iron (GI) pipe