



**Trans Solar Technologies** presents Solar Street Lighting system with 11W CF Lamp / LED lights is an ideal lighting systems for the illumination of streets, squares and cross roads located in areas that are not connected to the power grid

## Features

- Battery charging indicator
- Low battery indicator
- Dust and jet proof light unit
- Temperature compensated set points



## Benefits

A cost effective solution for street lighting

Unsurpassed Reliability

Sold in large numbers throughout India.

Proven reliability

Meets MNES/World Bank specifications

Meets MNES (Govt of India) and World Bank specifications

Self-Contained System

No wiring, No delays for Installation

No routine maintenance

No electric bills

- High reliability
- Low maintenance
- No fuel dependence
- Easy installation
- Clean energy
- Power for any location
- 100% powered by Sun
- Environment Friendly
- Solar panels reduce fossil fuel consumption, eliminating pollution

The stand alone solar photo voltaic Street lighting system comprises a compact fluorescent lamp as a light source, re-chargeable 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



## Technical Specifications

	TST - SSL 40	TST -SSL 50	TST -SSL 75
<b>General</b>			
Use	Outdoor		
Duty cycle	8 Hrs (5+3 Hrs)	12 Hrs	
Lamp switching	Timer control	Automatic dusk to dawn control	
Number of days of autonomy	1 Days	2 Days	3 Days
<b>SPV Module</b>			
Module power @ 16.4V (STC)	40Wp	50Wp	75Wp
<b>Battery</b>			
Battery type	Flooded lead acid (Tubular) or VRLA SMF lead acid		
Battery voltage	12V		
Battery capacity @ C/10	40Ah	75Ah	
<b>Electrical - Charge controller</b>			
Charge controller type	Series pulsed two step, built into the lighting luminary		
Charging current	6A Max.		
Charge controller efficiency	>92%		
Idle consumption	<5mA		
Indications	Charging and low battery		
Protections	Against module reverse current flow, overcharge, deep discharge, reverse polarity and over load		
Fuse	Provided		
<b>Lighting luminary</b>			
Lamp type	Compact Fluorescent Lamp (CFL), 4 Pin, Single U		
Lamp wattage	11W		
Rated light output (Lumens)	900 ± 5%		
Lamp colour temperature	4700° K (Cool white)		
Light coverage	> 180°		
Rated Lamp life (Average)	>8000 Hrs		
Nominal working voltage	12V DC		
Inverter type	Quasi Sine wave, Free running		
Inverter frequency	24-28 kHz		



# Trans Solar Technologies

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Inverter efficiency	> 82%	
Lamp power (Type.) @ high frequency	11W	
<b>Connecting Cables</b>		
Module to charge controller	Wire with ring terminals provided	
Battery to charge controller	wire with ring and fork terminals provided	
Battery sensing cable	wire with ring and fork terminals provided	
<b>Mechanical</b>		
Pole	Al painted Galvanised Iron (GI) pipe of 3" diameter and 4.5 m height	
Module mounting frame	MS frame, Galvanised finish	
<b>Battery box</b>		
Dimensions	320x225x270 mm	490x250x310 mm
Material	MS sheet, Powder coated finish	
<b>Lighting luminary</b>		
Fixing	Pole mounting with mounting brackets, CF Lamp in base up configuration	
Canopy (Case)	Injection moulded engineering plastic, weather, water and insect proof	
Bowl (Light diffuser)	UV stabilised, non yellowing acrylic	
Reflector	Highly reflective anodised aluminium	
Colour (Canopy)	Black	
<i>Note: Specifications subject to change without notice. Check for latest update</i>		

