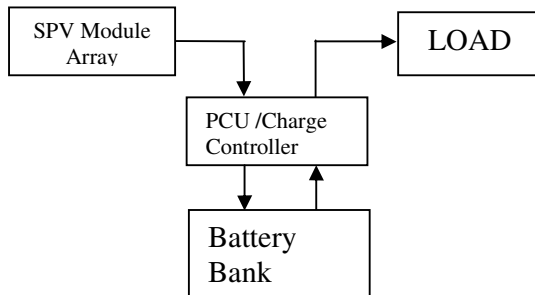




## Solar LED Street Light.

Trans Solar Technologies presents Solar Street Lighting system with 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.

### BLOCK DIAGRAM



### PRINCIPLE OF OPERATION

During the sunshine hours of the day, Solar Photovoltaic (SPV) Module charges the Battery Bank by direct photovoltaic conversion process. The Electronic Charge Controller/Power Conditioning Unit (PCU) supplies the electricity at the desired DC/AC voltage and current. The Charge Controller keeps the battery and system in the healthy state.

### SPV LED STREET LIGHTING SYSTEM

SPV Module	: 37 Wp, Crystalline Silicon
Lamp	: 6 W LED Lamp
Light Output	: > 15 Lux at the height of 10 feet
Operation	: Dusk to Dawn
Switching	: Automatic switched 'ON' at the Dusk and switched 'OFF' at dawn
Battery	: 12V-40Ah Lead Acid battery).
Housing	: ABS/Aluminum cast /Metallic, with acrylic transparent cover.
Protections	: Battery Over Charge & Deep Discharge, Reverse Polarity, Short Circuit and Open Circuit.
Indications	: Charging, Battery Low
Autonomy	: 3 Days

