

## Solar Traffic Lighting System



### solar led traffic signal system:

We have now introduce solar powered traffic signals using led based signal lights, instead of conventional incandescent lamps, As These lights consumes 90% less energy it makes system practically viable to operate Traffic signals maintenance free on eco-friendly Solar Power and without electricity connections. These Systems were custom designed and were manufactured and tested to stringent China Standards.



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### 1>>Features: **Solar Traffic System are Use solar panel, wireless control system, battery, 12V traffic light**

- 1.solar modules are fully encapsulated to resist harsh weather conditions
- 2.Low voltage load disconnect
- 3.Sealed,lead-acid battery designed for deep discharge cycling
- 4.NEC code compliant over-current protection and safety disconnect
- 5.Temperature compensated battery charging
- 6.Corrosion resistant control/batter enclosure
- 7.Installation,operation & maintenance documentation
- 8.Solid state electronics for improved efficiency and reliability
- 9.Pre-assembled, pre-wired systems minimize field installation time & eliminate wiring errors
- 10.Complete systems reduce specifying and buying time
- 11.Quality components assure long system life
- 12.Full system and performance warranty available on prepackaged systems

### 2>> **CONTROLLER of solar traffic signal light:**

The controller feature full protective functions for overcharge, low battery state of charge (SOC), over current, over-voltage and over temperature. Status LEDs display battery SOC and system status. In addition, the control algorithm utilizes voltage, temperature and amp-hour measurements to enable an accurate determination of the SOC, the most critical system parameter, and adjusts charging current and voltage for the temperature, capacity and age of the battery.

### 3>>**BATTERY of solar traffic signal light:**

Completely sealed, valve regulated lead acid (VRLA); Absorbed glass mat (AGM) technology; Maintenance free-never wide operating temperatures from -40F (-40C) to 160F (72C).

### 4>>**Solar Energy and Technical Parameter(solar traffic signal light):**

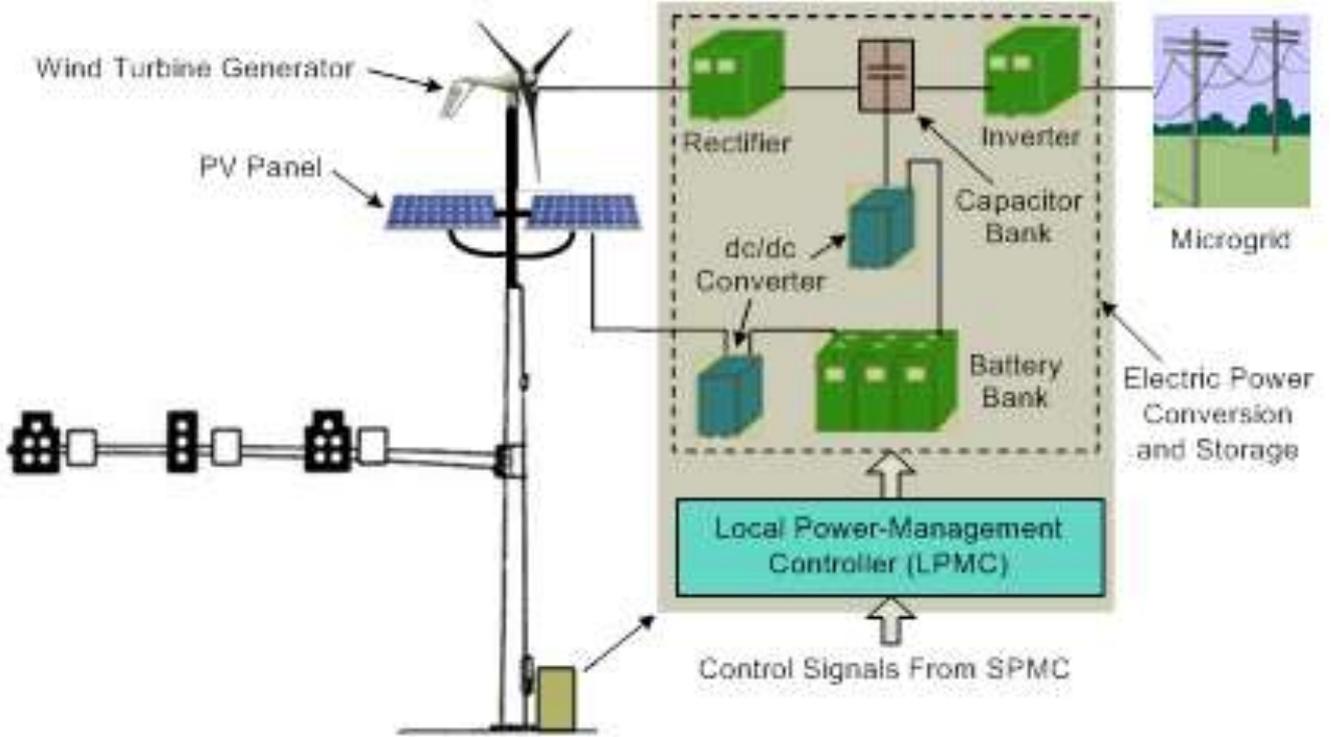
Operating temperature	-15 ~ +40
Flicker Frequency	1HZ
Dutyfactor	1: 3
Luminance Ratio	2: 1
Continuous of Rain Working Day	7 days
Working Volt	12V
Working Current	>350ma
Visual Range	500 m
Assemble Way	Suspension

### 5>>**The Total System Consists of :**

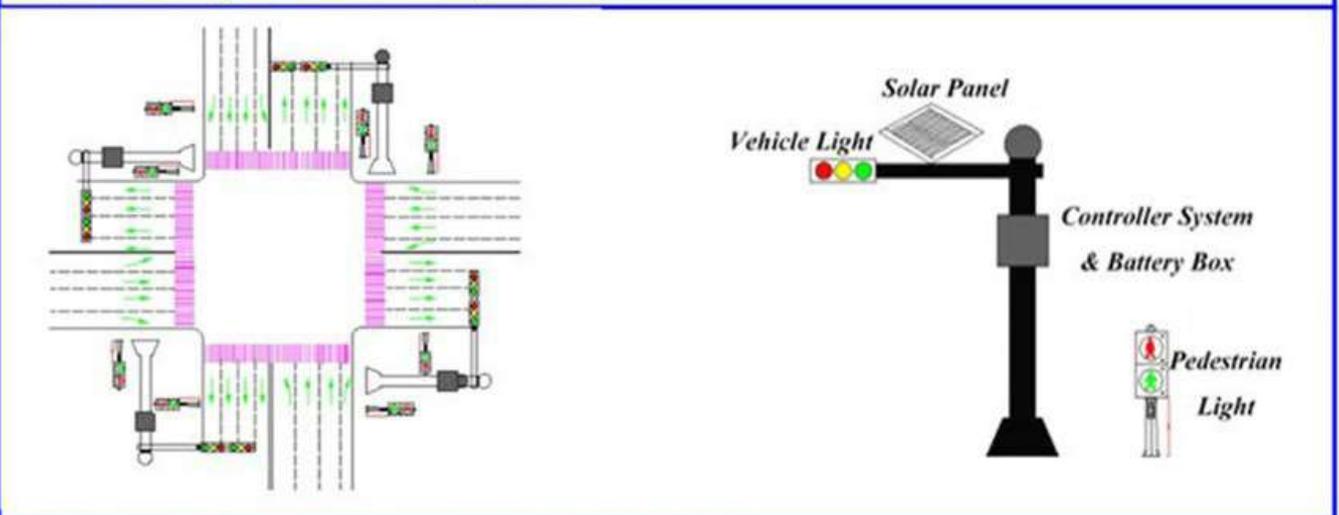
1. wireless solar traffic controller, 1 mast and 4 slaves
2. 200mm vehicle traffic light,

3. 200mm pedestrian traffic light,
4. 45W solar panel with solar regulator
5. 65Ah solar battery





Intersection design such as followed pictures:



Traffic light+Pedestrian light+Controller+Battery+Panel