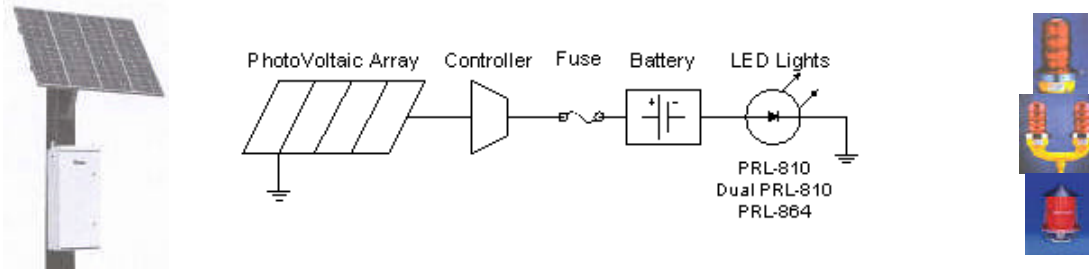




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## SolarPower

### Solar Powered Obstruction Lighting Systems



**Contact us to discuss your remote, Obstruction Lighting System Needs. We can develop a cost effective, Solar Powered Obstruction Lighting System, to meet those needs.**

#### Application

The FAA mandates steady red obstruction lights on towers and communication obstructions from 50-2,200 feet in height, where there is a danger to small planes and helicopters at night. Steady red lights are required up to 150 ft. in height and flashing red lights (L864) are mandated up to 350 feet high. See our PRL-810 and PRL-864 bulletins for FAA, ICAO lights.

In remote areas, where 110V or 220V is not available except at extremely high cost, solar systems are often installed to operate the lights. Solar systems for incandescent FAA lights are large and expensive, requiring many large solar panels (110 watt for L810 and 1,600 watt for L864) large batteries to store daylight charging and to operate the lights at night, as well as conversion controls.

P & R Technologies Solar Powered Obstruction Light Systems cost 1/10-1/12 of the initial cost of incandescent solar systems, because (1) the lights are FAA approved LED, light emitting diodes. LED lights use 1/8-1/10 of the power of incandescent lights and therefore require much less solar power equipment, fewer batteries, smaller solar panels and less support structures, and (2) requires much less maintenance, with a 5 year warranty on the lights and a 10 year life expectancy without changing light bulbs. Smaller number of solar panels and smaller number of sealed batteries also require less maintenance.

#### Low, Low Maintenance Costs

Some utilities have to change as many as 300 incandescent light bulbs per year on obstruction lights, meaning significant costs in time, equipment and manpower. SunPOWR systems utilize our FAA LED lights, which carry a five year warranty and a 10 plus year life expectancy, eliminating thousands of dollars in maintenance costs every year. The solar system has no working parts. Sealed, maintenance free Gelcell batteries are supplied. A remote monitoring wireless system can be added.

#### Meets FAA, ICAO Intensity Standards

The Model PRL-810 solar system uses a steady red LED light. The PRL-864 solar system uses a flashing red LED light, per FAA and ICAO advisories. The FAA specifies 32.5 candela intensity for towers up to 150 feet and 2,000 candela intensity flashing beacons on taller structures.