



OBSTRUCTION LIGHTING

REMOTE SOLAR POWER SYSTEMS

SOLAR POWERED OBSTRUCTION LIGHTING SYSTEM

FAA type L-810
(P/N 88799)

Kyocera Solar, Inc (KSI) has developed the 88799 packaged system to provide obstruction lighting for towers and structures. The 88799 is a complete packaged solar power system and Obstruction Light.

The system uses an FAA type L-810 single red LED obstruction light. Power to the light is supplied by a 12 VDC solar power system consisting of a 130 Wp solar module, two 99 Ah sealed maintenance-free batteries, and a temperature-compensated charge controller with day/night detection. The entire system is designed for quick installation and can be mounted to a 2" SCH40 pole (2.375" O.D.).

An LED light is used for low power consumption. Day/night detection of the obstruction light is controlled by the solar charge regulator which uses the solar array to sense day/night conditions. The solar regulator also prevents the battery from being overcharged or deep-discharged. An integral temperature sensor automatically adjusts the battery charge voltage to compensate for temperature fluctuations for extended battery life.

The 88799 packaged system is the optimal choice for obstruction lighting applications where reliability is a must.

(Consult factory for application assistance.)

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SOLAR POWERED OBSTRUCTION LIGHTING SYSTEM FEATURES

- 12 VDC, negative ground
- Operating temperature range: -20°C to 55°C
- Complete System Factory Tested
- Comprehensive and easy to use Installation, Operation, and Maintenance (IOM) manual
- All industrial grade components for reliability and durability.
- Supplied with interconnect cabling (load wiring excluded) and mounting hardware (for 2" SCH40 pole, pole excluded)
- All cable assemblies are UV resistant and water resistant
- System weight (unpacked): 125 kg
- System weight (packed): 165 kg



Battery Reserve

- Two sealed (valve-regulated) maintenance free gel -12 VDC batteries wired in parallel for a nominal capacity of 198 Ah at 100hr rate, 12 VDC nominal
- 14 day typical battery autonomy
- Requires no watering

Battery/Controller Enclosure

- White powder coated steel enclosure houses the controller and batteries, and protects them from the elements.
- Environmental protection: NEMA 3R
- 10A battery fuse provided for over-current protection

System Controller

- Model: MorningStar SunLight 10L-12V
- Rated 10A charge current, 10A load current
- Temperature Compensation
- Day/night detect circuitry for automated operation
- Low Voltage Disconnect
- LED Indicators for system operation
- Manual test function
- Field adjustable lighting control options
- Power consumption of less than 10 mA

Obstruction Light

- FAA type L-810 single obstruction light
- Low intensity, "steady burn", red
- Effective candelas: 32.5
- Power consumption: 8 watts
- Horizontal coverage: 360°

Solar Array

- 130 Wp array consisting of a single Kyocera KC130TM multicrystalline 12 VDC solar module with a nominal output of 7.39 Amps at 17.6 VDC
- Aluminum support structure designed for 90 mph wind loading

Remote Power Solutions



One Year System Warranty

The 88799 Packaged Lighting System has a one year limited warranty against defects in materials and workmanship. KSI also provides extended system warranties. Please contact KSI for additional details and for full warranty terms and conditions.

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