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Obstruction Light Solar Power System

Compliance and Applications

Compliant with FAA Engineering Brief No. 76
 L-810 fixture FAA approved under AC 150/5345-43J

Our Solar Power System allows obstruction lights to run with free, renewable energy from the sun. The system is designed as a compact, all-in-one solar system, completely self contained for easy installation. The high efficiency, compact design provides end users with a lightweight, maintenance free power solution, requiring minimal surface area for installation. The system is ideal for remote airstrips where hard-wired infrastructure is unavailable. Every system is custom designed for a specific location to ensure years of trouble-free, solar powered service.

Advantages

Decreased Costs

With zero electricity costs, simple installation and almost no maintenance, the system quickly realizes long-term cost savings.

Experience = Reliability

With over 25 years experience in designing solar power systems, our solar experts will ensure a system that operates reliably, regardless of the installation location.

Specifications

Mechanical

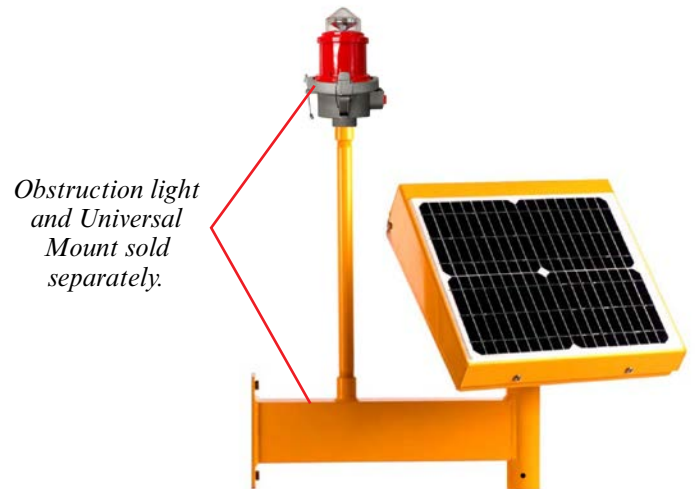
Mounting: Side of pole or pole top mount
 Weight & Dimensions: 20W = 15" x 16" x 6", 25 lb.;
 40W = 31" x 15" x 6", 50 lb.
 Enclosure and Mount: 6061-T6 Powder Coated (Aluminum)

Electrical

Flash / Charge Controller: Programmable. CSA and UL Certified.
 Compliant to NEMA 4, IP65 ratings
 - 12V Input/Output. Ensures batteries are not under or over charging.

Control Options: Self contained photocell; FAA-approved external photocell;
 Continuous operation

Solar Module Technology: Crystalline & Amorphous
 Solar Panel Life Expectancy: 25 years
 Operating Voltage: 12VDC
 Solar Panel Power: 20 Watts or 40 Watts
 Run Times (single FL-810L,LNV): 20W: 90 hours (4 days, 24/7)(7+ days, dusk to dawn)
 40W: 180 hours (7+ days, 24/7)(14+ days, dusk to dawn)
 Battery Type: Sealed Deep-Cycle Lead-Acid
 Battery Size: 20W = 18 Ah SLA; 40W = 36 Ah SLA (3-5 years)
 Optional Battery Upgrade: 16 Ah Deep Cycle, 32 Ah Deep Cycle Extended life (5-7 years)



Obstruction light and Universal Mount sold separately.

Certification: CE and TUV certified
 Available Housing Colors: Aviation Yellow, White, Olive Drab, Black

Environmental

Operating Temperature: -55°C to +55°C (-67°F to +131°F)
 Weather Protection: Enclosure is NEMA 4, IP65

Warranty

Warranty: 5 years Solar System, 1 year Battery

18" Universal Mount

This optional mount makes for an easy and clean installation. Compatible with 20W and 40W Solar Engines. Includes mount, 2" collar, 1" NPT union, 1" NPT nipple / 14" long to mount L-810 obstruction light (single or dual). Compatible with 2" baseplate for surface mounting (sold separately). Model number: SP-SS-UM-18.

Ordering Code

Model	Solar Panel	Photocell
SP	20W-OB: 20W Solar Panel 40W-OB: 40W Solar Panel	NP: No Photocell P: Built-in Photocell
SP-SS-UM-18	18" Universal Mount	

* FL-810(L,LNV)-R-DC LED obstruction light(s) sold separately.

Visit our web site: www.flightlight.com