# FAA L-810 Obstruction Light with Solar Power System

AV-OL Series Single or Dual Light Fixture

### **Features**

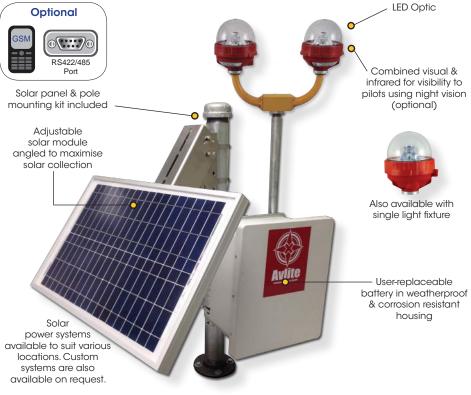
- Cost effective, energy efficient obstruction lighting solution
- Power supplies available in various sizes to suit visual or IR light fixtures
- Angle of the solar module can be adjusted to maximise solar collection
- User-replaceable battery in weatherproof housing
- Single or dual light fixture
- User-adjustable operation mode to toggle between dusk-till-dawn & 24hr operation
- Alarm contact for remote monitoring
- Light sensor for day/night operation
- LED technology reduces maintenance time and costs
- Easy to service
- Optional combined visual/IR for pilots using NVG
- Available with optional GSM monitoring
- Optional RS422/485 communications port for monitoring
- Custom built systems are also available

## **Applications**

Obstruction lighting

# Compliance

- Certified to FAA AC150/5345-43G for L-810 Steady-burning Red **Obstruction Light**
- FAA Engineering Brief No. 67D
- FAA Engineering Brief No. 76



This Avlite light fixture is a steady burning, low intensity, solar powered, LED obstruction light designed to comply with FAA L-810 requirements including Engineering Brief 76 - Using solar power for airport obstruction lighting. The model can be used for marking obstacles which pose a threat to aircraft, such as towers, airport perimeter fencing, wind turbines, buildings and other tall structures.

Avlite's LED obstruction lights offer an ultra bright, energy efficient and cost effective solar powered lighting solution. The solar module has an adjustable mount which can be angled to maximise solar collection.

The solar modules charge the battery during daylight hours, and the light automatically begins operation at dusk once the ambient light threshold drops sufficiently.

The complete assembly is available in a variety of solar/ battery configurations to suit a range of installations and ensures years of maintenance-free reliable service.

Please contact Avlite for solar calculations to determine which model will operate effectively in your location.

The obstruction light also has an adjustable operation mode setting to allow the user to easily toggle between dusk-till-dawn and 24 hour operation modes.

The obstruction light is also available with combined visual and infrared (IR) for visibility to pilots using night vision.



Angle of the solar panel can be adjusted



Mounting kit ensures the system



FAA L-810 single light fixture



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#### **Light Characteristics** Light Source

SPECIFICATIONS \* \*

Available colors Peak Intensity (cd)†

Operation Mode Adjustment Horizontal Output (degrees)

Vertical Divergence (degrees) LED Life Expectancy (hours)

#### **Electrical Characteristics**

Current Draw (mA) Power (W) Circuit Protection Temperature Range

#### **Solar Characteristics**

Solar Module Type Output (watts)

Solar Module Efficiency (%) Charging Regulation

**Power Supply** 

Battery Type

Battery Capacity (Ah)

Nominal Voltage (V) Autonomy (nights) Battery Service Life

#### **Physical Characteristics**

Light Head: **Body Material** 

Lens Material Lens Diameter (mm/inches)

Lens Design Height (mm/inches) Width (mm/inches)

Mass (kg/lbs) Mounting

**Power Supply** 

Height (mm/inches)

Width (mm/inches)

Depth (mm/inches)

Mass (kg/lbs)

Mounting

Mounting

**Battery Enclosure:** 

Material Height (mm/inches) Width (mm/inches)

Depth (mm/inches) Mass (kg/lbs)

Product Life Expectancy

# Certifications

Quality Assurance

FAA Waterproof

**Intellectual Property** 

**Trademarks** Warranty \*

**Options Available** 

As tested: FAA: AV-OL-FL810-12-R LED

Red as standard. Other colors available on request, including IR

Complies with FAA L-810 obstruction lights

User-adjustable between dusk-till-dawn & 24 hour operation

As per FAA L-810 obstruction light specification

>100,000

FAA L-810 @ 32.5cd Steady-on with relay energised & IR: Imax = 135 FAA L-810 @ 32.5cd Steady-on with relay energised & IR: Pmax = 1.75 Integrated

-40 to 80°C Multi Crystalline

AV-PS-36-20-01 Power Supply: 20 AV-PS-100-40-01 Power Supply: 40 AV-PS-36-40-01 Power Supply: 40 AV-PS-100-60-01 Power Supply: 65

Microprocessor controlled

SLA (Sealed Lead Acid)

AV-PS-36-20-01 Power Supply: 36 AV-PS-100-40-01 Power Supply: 100

AV-PS-36-40-01 Power Supply: 36 AV-PS-100-60-01 Power Supply: 100

>7 nights as per EB 76

>5 years

Single Fixture: LEXAN® Polycarbonate - UV stabilized Dual Fixture: 7-stage powder-coated aluminium

LEXAN® Polycarbonate - UV stabilized

100 / 37/8

Single LED Optic Single Fixture: 137 / 51/2

Dual Fixture: 245 / 93/4 Single Fixture: 121 / 43/4 Dual Fixture: 354 / 14 Single Fixture: 0.4 / 7/8 Dual Fixture: 2.3 / 5

3/4 inch pipe thread

AV-PS-36-20-01 Power Supply: 306 / 14.17 AV-PS-36-40-01 Power Supply: 537 / 21.14 AV-PS-100-40-01 Power Supply: 537 / 21.14 AV-PS-100-60-01 Power Supply: 665 / 26.18 AV-PS-36-20-01 Power Supply: 656 / 25.8 AV-PS-36-40-01 Power Supply: 665 / 26.57 AV-PS-100-40-01 Power Supply: 665 / 26.57 AV-PS-100-60-01 Power Supply: 771 / 30.35 AV-PS-36-20-01 Power Supply: 18 / 0.17 AV-PS-36-40-01 Power Supply: 30 / 1.38 AV-PS-100-40-01 Power Supply: 30 / 1.38 AV-PS-100-60-01 Power Supply: 30 / 1.38 AV-PS-36-20-01 Power Supply: 2.38 / 5.25 AV-PS-36-40-01 Power Supply: 4.5 / 9.92 AV-PS-100-40-01 Power Supply: 4.5 / 9.92

AV-PS-100-60-01 Power Supply: 6 / 13.23 Mounting bracket to suit two in post

Compression molded fiberglass reinforced polyester

506 / 20 455 / 18 308 / 121/4

8.2 / 18 excluding battery

Pole mounting kit to suit up to 15 inches

Up to 12 years

EN61000-6-3:1997. EN61000-6-1:1997

ISO9001:2008

L-810 Steady-burning Red Obstruction Light (Qualified by Intertek)

Light head: IP67

Battery enclosure: NEMA 4X rated

AVLITE® is a registered trademark of Avlite Systems

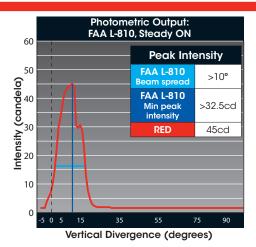
3 year warranty

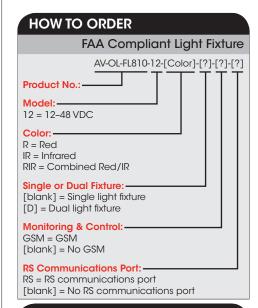
Variety of solar/battery configurations

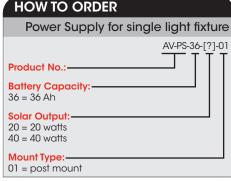
 Dual visual/IR output • IR LED

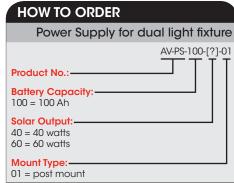
• RS422/485 communications port

GSM Cell-Phone Monitoring
Threaded adaptor for light head to fit one (1) inch pipe













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