

FAA L-810 Obstruction Light with Solar Power System



Intertek
(Light fixture only)



AV-OL Series Single or Dual Light Fixture



Also available with single light fixture

Other solar configurations available

LED Optic

Combined visual & infrared visibility for pilots using night vision (optional)

Solar panel & pole mounting kit included

Adjustable solar module angled to maximize solar collection

User-replaceable battery in weatherproof & corrosion resistant housing

Solar power systems available to suit various locations. Custom systems are also available on request.

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 maximize 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 & synchronization

Custom built systems are also available

Applications

Low Intensity Obstruction Light for marking top of obstacles that do not exceed 150 feet (45 metres) in height

Certifications

Certified to FAA AC150/5345-43G for L-810 Steady-burning Red Obstruction Light

Compliance

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 maximize 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 is also available with combined visual and infrared (IR) visibility for pilots using night vision.



Angle of the solar panel can be adjusted to maximize solar collection



Mounting kit ensures the system is easy to install



FAA L-810 single light fixture



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SPECIFICATIONS * * FAA L-810 LIOL with solar power system

Light Characteristics

Light Source	As tested; FAA: AV-OL-FL810-12-R LED
Available colors	Red as standard. Other colors available on request, including IR
Peak Intensity (cd)†	Complies with FAA L-810 obstruction lights
Operation Mode Adjustment	User-adjustable between dusk-till-dawn & 24 hour operation
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	As per FAA L-810 obstruction light specification
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Power (W)	FAA L-810 @ 32.5cd Steady-on with relay energized: Pmax = 1.44
Circuit Protection	Integrated
Temperature Range	-40 to 80°C

Solar Characteristics

Solar Module Type	Multi Crystalline
Output (watts)	AV-PS-36-20-01 Power Supply: 20 AV-PS-36-45-01 Power Supply: 45 AV-PS-55-70-01 Power Supply: 70 AV-PS-55-100-01 Power Supply: 100
Charging Regulation	Microprocessor controlled

Power Supply

Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	AV-PS-36-20-01 Power Supply: 36 AV-PS-36-45-01 Power Supply: 36 AV-PS-55-70-01 Power Supply: 55 AV-PS-55-100-01 Power Supply: 55
Nominal Voltage (V)	12
Autonomy (nights)	>7 nights as per EB 76
Battery Service Life	>5 years

Physical Characteristics

Light Head:	
Body Material	Single Fixture: LEXAN® Polycarbonate – UV stabilized Dual Fixture: 7-stage powder-coated aluminium
Lens Material	LEXAN® Polycarbonate – UV stabilized
Lens Diameter (mm/inches)	100 / 3 7/8
Lens Design	Single LED Optic
Height (mm/inches)	Single Fixture: 137 / 5 1/2 Dual Fixture: 245 / 9 3/4
Width (mm/inches)	Single Fixture: 121 / 4 3/4 Dual Fixture: 354 / 14
Mass (kg/lbs)	Single Fixture: 0.4 / 7/8 Dual Fixture: 2.3 / 5
Mounting	3/4 inch pipe thread

Power Supply

Solar Panel:	
Width x Height x Depth (mm/inches)	AV-PS-36-20-01 Power Supply: 357 x 576 x 30 / 14.06 x 22.68 x 1.18 AV-PS-36-45-01 Power Supply: 675 x 534 x 30 / 26.57 x 21.02 x 1.18 AV-PS-55-70-01 Power Supply: 675 x 774 x 30 / 26.57 x 30.47 x 1.18 AV-PS-55-100-01 Power Supply: 675 x 1062 x 30 / 26.57 x 41.81 x 1.18
Mass (kg/lbs)	AV-PS-36-20-01 Power Supply: 2.8 / 6.17 AV-PS-36-45-01 Power Supply: 4.6 / 10.25 AV-PS-55-70-01 Power Supply: 6.0 / 13.22 AV-PS-55-100-01 Power Supply: 8.9 / 19.62
Mounting	Mounting bracket to suit two in post

Battery Enclosure:

Material	
Width x Height x Depth (including UniStrut Mounting) (mm/inches)	AV-PS-36-20-01 Power Supply: 305 x 350 x 229 / 12 x 13.75 x 9 AV-PS-36-45-01 Power Supply: 305 x 350 x 229 / 12 x 13.75 x 9 AV-PS-55-70-01 Power Supply: 356 x 406 x 229 / 14 x 16 x 9 AV-PS-55-100-01 Power Supply: 356 x 406 x 229 / 14 x 16 x 9
Mass (excluding batteries) (kg/lbs)	AV-PS-36-20-01 Power Supply: 5.7 / 12.5 AV-PS-36-45-01 Power Supply: 5.7 / 12.5 AV-PS-55-70-01 Power Supply: 7.3 / 16 AV-PS-55-100-01 Power Supply: 7.3 / 16
Mounting	Pole mounting kit to suit up to 15 inches
Product Life Expectancy	12 years plus

Certifications

CE	EN61000-6-3:2007 . EN61000-6-1:2007
Quality Assurance	ISO9001:2008
FAA	L-810 Steady-burning Red Obstruction Light (Qualified by Intertek)
Waterproof	Light head: IP68 Battery enclosure: NEMA 4X rated

Intellectual Property

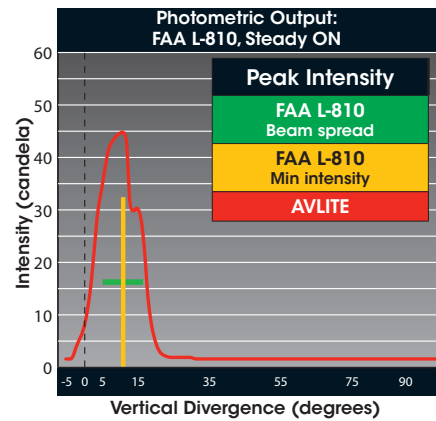
Trademarks AVLITE® is a registered trademark of Avlite Systems

Warranty *

5 year warranty

Options Available

- 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



HOW TO ORDER

FAA L-810 LIOL Light Fixture

Product No.:	AV-OL-FL810-12-[?]-[?]-[?]-[?]
Certification:	FL810 = FAA L-810 LIOL
Model:	12 = 12-48 VDC
Color:	R = Red IR = Infrared RIR = Combined Red/IR
Fixture Type:	[blank] = Single fixture D = Dual fixture
Monitoring & Control:	GSM = GSM [blank] = No monitoring & control
RS Communications Port:	RS = RS communications port [blank] = No RS communications port

HOW TO ORDER

Power Supply for single light fixture

Product No.:	AV-PS-36-[?]-01
Battery Capacity:	36 = 36 Ah
Solar Output:	20 = 20 watts 45 = 45 watts
Mount Type:	01 = post mount

HOW TO ORDER

Power Supply for dual light fixture

Product No.:	AV-PS-55-[?]-01
Battery Capacity:	55 = 55 Ah
Solar Output:	70 = 70 watts 100 = 100 watts
Mount Type:	01 = post mount

Note: Please contact your Avlite representative for additional power supply solutions



† Intensity setting subjected to solar availability
* Specifications subject to change or variation without notice
* Subject to standard terms and conditions

