# ICAO Type A & Type B Obstruction Light with Solar Power System















AV-OL Series Single or Dual Light Fixture





#### **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**

available

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 & synchronisation

Custom built systems are also available

## **Applications**

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

#### **Certifications**

Low Intensity Type A & B Obstruction Light, ICAO Annex 14, Volume 1, Sixth Edition, July 2013, 'Aerodrome Design and Operations'

This Avlite light fixture is a steady burning, low intensity, solar powered, LED obstruction light designed to comply with ICAO Type A and Type B requirements. 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



is easy to install



ICAO Type A & Type B single light fixture



Light Source Available colours

Peak Intensity (cd)† Operation Mode Adjustment

Horizontal Output (degrees)

Vertical Divergence (degrees) Reflector Type

Intensity Adjustments LED Life Expectancy (hours)

**Electrical Characteristics** 

Power (W)

Circuit Protection Temperature Ranae

**Solar Characteristics** 

Solar Module Type Output (watts)

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** 

Solar Panel:

Width x Height x Depth (mm/inches)

Mass (kg/lbs)

Mounting **Battery Enclosure:** 

Width x Height x Depth (including Unitstrut Mounting) (mm/inches)

Mass (excluding batteries)

(kg/lbs)

CF

Mounting

Product Life Expectancy

Certifications

Quality Assurance

ICAO Waterproof

**Intellectual Property Trademarks** 

Warranty \*

**Options Available** 

As tested; AV-OL-ILAB-12-R (Type A & Type B)

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

Complies with ICAO LIOLA & LIOLB: 2013

User-adjustable between dusk-till-dawn & 24 hour operation 360

as per ICAO Type A/B specification

Single LED Optic

User-adjustable between 10cd & 32cd

>100.000

ICAO LIOL Type A @ 10cd Steady-on with relay energised: Pmax = 0.9 ICAO LIOL Type B @ 32cd Steady-on with relay energised: Pmax = 2.16

-40 to 80°C

Multi Crystalline

AV-PS-36-20-01 Power Supply: 20 AV-PS-55-70-01 Power Supply: 70

AV-PS-36-45-01 Power Supply: 45 AV-PS-55-100-01 Power Supply: 100

Microprocessor controlled

SLA (Sealed Lead Acid)

AV-PS-36-20-01 Power Supply: 36 AV-PS-55-70-01 Power Supply: 55 AV-PS-36-45-01 Power Supply: 36 AV-PS-55-100-01 Power Supply: 55

>7 nights >5 years

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

LEXAN® Polycarbonate - UV stabilized

 $100 / 3^7/8$ 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

¾ inch pipe thread

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

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 bracket to suit two in post

Compression molded fibreglass reinforced polyester

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

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

Pole mounting kit to suit up to 381mm / 15 inches

12 years plus

EN61000-6-3:2007. EN61000-6-1:2007

ISO9001:2008

Low Intensity Obstruction Light Type A & B

Light head: IP68

Battery enclosure: NEMA 4X rated

AVLITE® is a reaistered trademark of Avlite Systems

5 year warranty

· Variety of solar/battery configurations

Dual visual/IR output

· IR LED

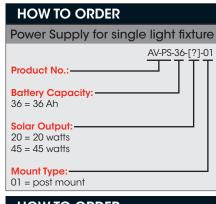
· RS422/485 communications port

· GSM Cell-Phone Monitoring

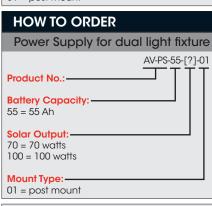
**AUSTRALIA** 

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## **HOW TO ORDER** ICAO Type A & B LIOL Fixture AV-OL-ILAB-12-[?]-[?]-[?]-[?] Product No.: Certification: ILAB = ICAO Type A & B LIOL 12 = 12-48 VDC Colour: 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



Note: Please contact your Avlite representative for additional power supply













