

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



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 & synchronisation
- Custom built systems are also available

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



Mounting kit ensures the system is easy to install



ICAO Type A & Type B single light fixture

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'



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SPECIFICATIONS * * ICAO Type A & B LIOL with solar power system

Light Characteristics

Light Source	As tested; AV-OL-ILAB-12-R (Type A & Type B)
Available colours	Red as standard. Other colours available on request, including IR
Peak Intensity (cd)†	Complies with ICAO LIOLA & LIOLB: 2013
Operation Mode Adjustment	User-adjustable between dusk-till-dawn & 24 hour operation
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	as per ICAO Type A/B specification
Reflector Type	Single LED Optic
Intensity Adjustments	User-adjustable between 10cd & 32cd
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Power (W)	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	
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-55-70-01 Power Supply: 70	AV-PS-36-45-01 Power Supply: 45 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-55-70-01 Power Supply: 55	AV-PS-36-45-01 Power Supply: 36 AV-PS-55-100-01 Power Supply: 55
Nominal Voltage (V)	12	
Autonomy (nights)	>7 nights	
Battery Service Life	>5 years	

Physical Characteristics

Light Head:	Single Fixture: LEXAN® Polycarbonate – UV stabilized Dual Fixture: 7-stage powder-coated aluminium	
Body Material	LEXAN® Polycarbonate – UV stabilized	
Lens Material	100 / 37/8	
Lens Diameter (mm/inches)	Single LED Optic	
Lens Design	Single Fixture: 137 / 5½	Dual Fixture: 245 / 9¾
Height (mm/inches)	Single Fixture: 121 / 4¾	Dual Fixture: 354 / 14
Width (mm/inches)	Single Fixture: 0.4 / 7/8	Dual Fixture: 2.3 / 5
Mass (kg/lbs)	¾ inch pipe thread	
Mounting		

Power Supply

Solar Panel:	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	
Width x Height x Depth (mm/inches)	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	
Mass (kg/lbs)	Mounting bracket to suit two in post	
Mounting		

Battery Enclosure:

Material	Compression molded fibreglass reinforced polyester	
Width x Height x Depth (including Unitstrut 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 381mm / 15 inches	
Product Life Expectancy	12 years plus	

Certifications

CE	EN61000-6-3:2007. EN61000-6-1:2007
Quality Assurance	ISO9001:2008
ICAO	Low Intensity Obstruction Light Type A & B
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

HOW TO ORDER

ICAO Type A & B LIOL Fixture

AV-OL-ILAB-12-[-?]-[-?]-[-?]-[-?]	
Product No.:	
Certification:	ILAB = ICAO Type A & B LIOL
Model:	12 = 12-48 VDC
Colour:	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

AV-PS-36-[-?]-01	
Product No.:	
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

AV-PS-55-[-?]-01	
Product No.:	
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



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

