

Solar Self-Contained Obstruction Light

AV-OL-310



Avlite's self-contained solar light fixture is a steady burning, low intensity LED obstruction light designed to comply with FAA L-810 or ICAO Low Intensity Type A and B requirements. The model can be used for marking obstacles of up to 45 meters above ground level such as telecommunication towers, wind turbines, buildings and other tall structures.

Specifically designed to withstand the harshest environments, the AV-OL-310 features a composite top and base and an aluminium internal chassis. The solar chassis is available in three chassis heights; Compact, Standard and Extended, all of which come with upgraded solar panels and a maximum power point tracker (MPPT) to optimise solar input into the 12Ah (Compact model) or 24Ah battery (Standard and Extended models) for longer run time. Each chassis is available with an optional ON/OFF switch and/or external charging port to for supplementary battery charges.

The LED optic comes compliant to either FAA or ICAO standards and is available with remote monitoring via either Satcom or GSM as options. The high impact resistant polycarbonate lens ensures even light distribution.

Features

- External and remote monitoring capabilities via GSM or SATCOM
- Field Replaceable components
- IP68 waterproof rating
- Optimised solar charging via MPPT and monocrystalline panels



Easy to Install

- Lightweight and convenient
- Minimal maintenance required

Applications

- Solar Powered Low Intensity Obstruction Light for temporary or permanent applications

Compliance

- ICAO Annex 14, Volume 1, Sixth Edition, July 2009
- FAA AC150/5345-43H L-810 Low Intensity Obstruction Light (Qualified by Intertek)

Reliable

- 3 year warranty

Optional Add Ons

- GPS Synchronisation
- SATCOM Remote Monitoring
- GSM Cell-Phone Monitoring
- External Battery Charging Port
- External Switch
- Star2M remote monitoring integration via GSM or SATCOM
- Solar Booster™

Technical Specifications*

AV-OL-310	Compact	Standard	Extended
Light Characteristics			
Peak Intensity (cd) [†]	Complies with FAA L-810 obstruction lights. Complies with ICAO Low Intensity Type A & B: 2009;		
Horizontal Output (degrees)	360		
Vertical Divergence (degrees)	L810 variant: As per FAA L-810 obstruction light specification. ILAB variant: As per ICAO Type A/B specification.		
Reflector Type	Single LED Optic		
LED Life Expectancy (hours)	>100,000		
Electrical Characteristics			
Circuit Protection	Integrated		
Operating Voltage	12		
Temperature Range	-40 to 55°C		
Solar Characteristics			
Solar Module	Monocrystalline		
Output (watt)	20 (4 x 5watt)	28 (4 x 7watt)	33.6 (4 x 8.4watt)
Charging Regulation	MPPT		
Power Supply			
Battery Type	SLA (Sealed Lead Acid)		
Battery Capacity (Ah)	12	24	
Nominal Voltage (VDC)	12		
Physical Characteristics			
Body Material	Composite Polymer		
Lens Material	LEXAN® Polycarbonate – UV stabilized		
Lens Diameter (mm/inches)	107 / 4¼		
Lens Design	Single LED Optic		
Mounting	4 hole 200mm bolt pattern		
Height - Base (mm/inches)	407 / 16	504 / 19 ¾	564 / 22 ¼
Height - Remote Monitoring (mm/inches)	428 / 16 ¾	525 / 20 ¾	585 / 23
Width (mm/inches)	234 / 9 ¼	234 / 9 ¼	234 / 9 ¼
Mass (kg/lbs)	9.1 / 20	13.9 / 30 ½	14.6 / 32 ¼
Product Life Expectancy	12 years plus		
Environmental Factors			
Humidity	0 to 100%, MIL-STD-810F		
Wind Speed	Up to 160kph / 100mph		
Shock	MIL-STD-202G, Test Condition G, Method 213B		
Vibration	MIL-STD202G, Test Condition B, Method 204		
Compliance			
CE	EN61000-6-3 EN61000-6-1		
Quality Assurance	ISO9001:2015		
ICAO	Low Intensity Obstruction Light Type A & B		
FAA (Photometrics)	L-810 Low Intensity Obstruction Light (Qualified by Intertek)		
DGAC	L-810 Low Intensity Obstruction Light (Qualified by Intertek)		
Waterproof	IP68		
Intellectual Property			
Trademarks	AVLITE® is a registered trademark of Avlite Systems Patents Pending		
Warranty *	3 year warranty		
Options Available	<ul style="list-style-type: none"> • SATCOM Remote Monitoring • GSM Cell-Phone Monitoring • External Battery Charging Port <ul style="list-style-type: none"> • External Switch • Solar Booster™ 		

CE • Specifications subject to change or variation without notice
* Subject to standard terms and conditions

How to order the AV-OL-310 Solar Obstruction Light

AV-OL-310 - [?] - [?] - [?]

Product No.: _____

Lens Configuration: _____

ILAB = ICAO Type A & B

L810 = FAA L810

Chassis: _____

S2CO = Compact

S2C1 = Standard

S2C2 = Extended

Options: _____

00 = No Options

01 = Switch

02 = Charge Port

03 = Charge Port and Switch

04 = SAT Only

05 = SAT with Switch

06 = SAT with Charge Port

07 = SAT with Charge Port and Switch

08 = GSM Only

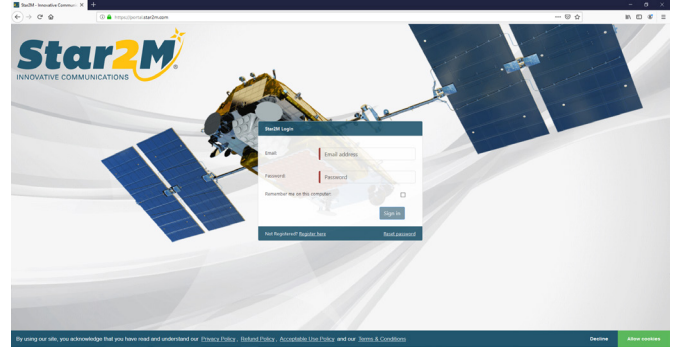
09 = GSM with Switch

10 = GSM with Charge Port

11 = GSM with Charge Port and Switch

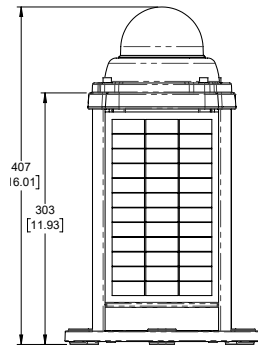
Star2M - Monitoring option available

GPS positioning via internet mapping system

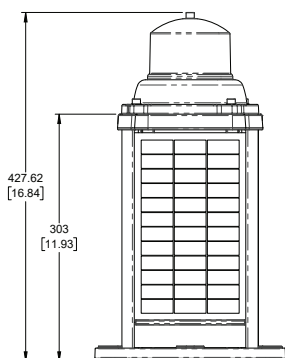


Technical Illustrations

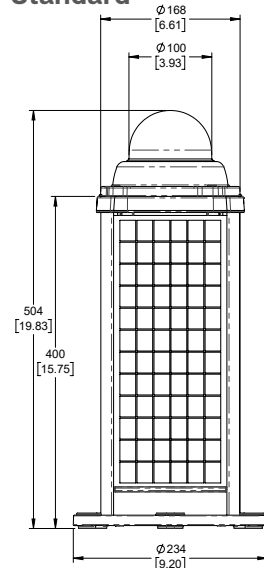
AV-OL-310 Base Compact



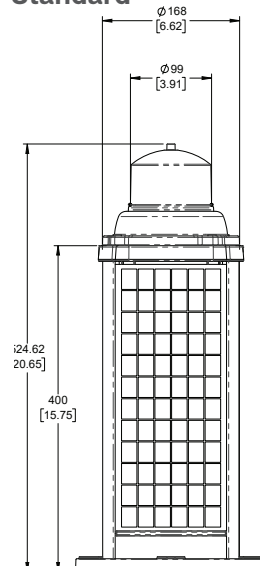
AV-OL-310 Remote Monitoring Compact



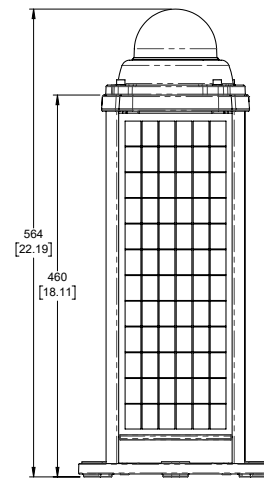
AV-OL-310 Base Standard



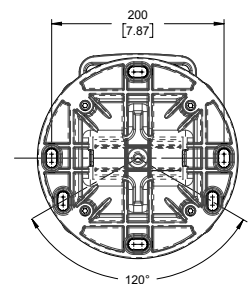
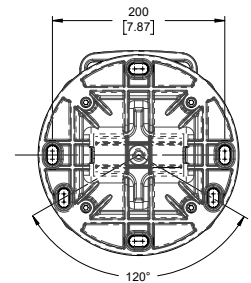
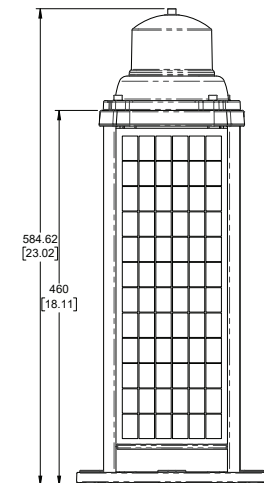
AV-OL-310 Remote Monitoring Standard



AV-OL-310 Base Extended



AV-OL-310 Remote Monitoring Extended



AV-OL-310_DATA_EN_V1-0