

# Solar Self-Contained Obstruction Light

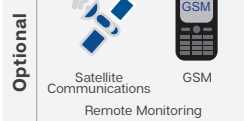
AV-OL-310

iridium®  
connected

**Avlite®**  
www.avlite.com



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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™

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Member of the Frequentis Group

Unit 71.5 Dunsfold Park, Cranleigh, Surrey GU6 8TB, United Kingdom  
Tel: +44 (0)1483 267 066 Fax: +44 (0)1483 267 044 Email: sales@systemsinterface.com  
[www.systemsinterface.com](http://www.systemsinterface.com)

## 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	• SATCOM Remote Monitoring • GSM Cell-Phone Monitoring • External Battery Charging Port • External Switch • Solar Booster™					



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

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## 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

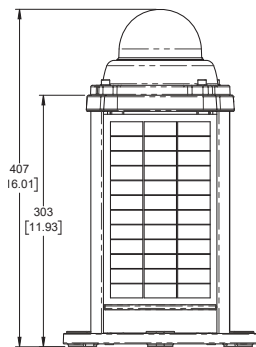
## Star2M - Monitoring option available

GPS positioning via internet mapping system

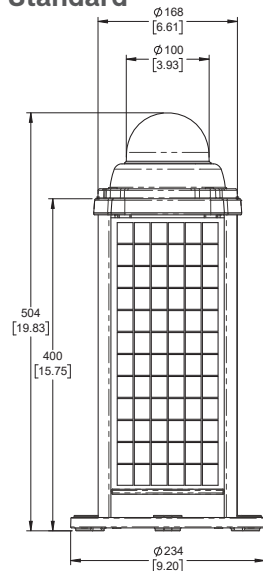


### Technical Illustrations

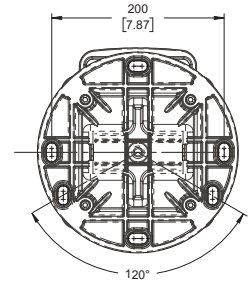
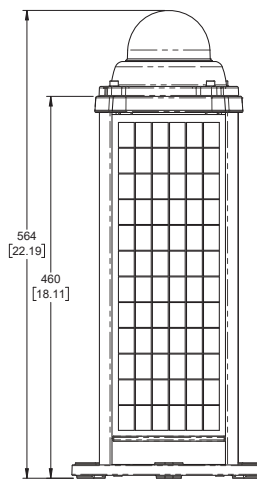
**AV-OL-310 Base Compact**



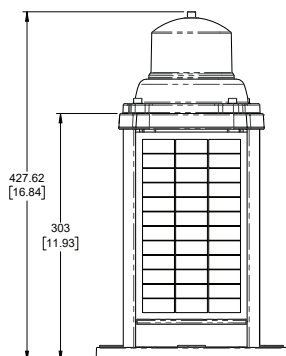
**AV-OL-310 Base Standard**



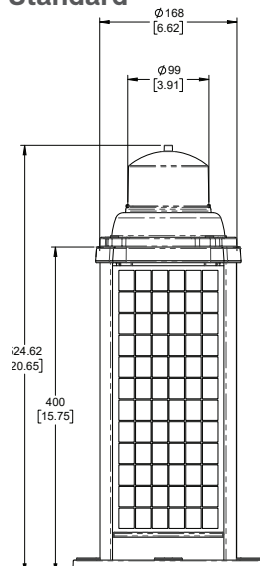
**AV-OL-310 Base Extended**



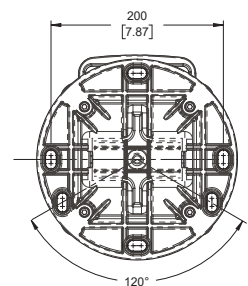
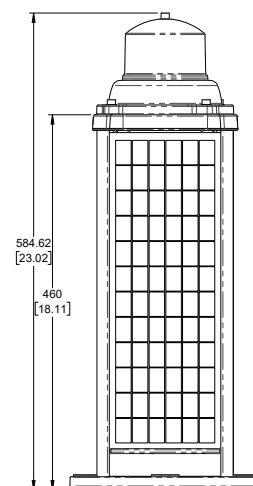
**AV-OL-310 Remote Monitoring Compact**



**AV-OL-310 Remote Monitoring Standard**



**AV-OL-310 Remote Monitoring Extended**



AV-OL-310\_DATA\_EN\_V1-0

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