

Solar Low-Intensity Obstruction Light

AV-OL-75 Avlite

Compliance and Applications

- Meets ICAO Annex 14, Volume 1, Aerodrome Design and Operations, Sixth Edition (July 2013), Table 6.3 – Low-Intensity Obstruction Light Type A

The AV-OL-75 is a next-generation, self-contained solar light designed to comply with ICAO Low-Intensity Type A requirements.

Features

- Solar-powered, self-contained
- Dual high-performance solar modules
- Tough UV-stabilized LEXAN® polycarbonate lens and light base
- Easy to handle and install
- Bluetooth® connectivity for convenient servicing
- Optional switch and charge port

Bluetooth® for Monitoring

Using the new Bluetooth®-connected mobile application, the AV-OL-75 can be monitored from distances of up to 50 meters. A built-in solar calculator confirms the light's ability to operate at the selected location, ensuring optimal performance.

Small Form Factor

The compact, self-contained AV-OL-75 is the smallest and lightest ICAO-compliant Type A obstruction light on the market.

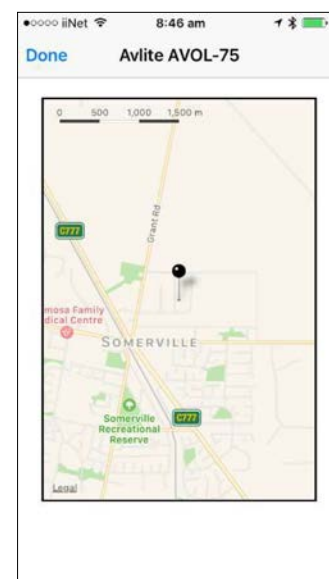
Dual High-Performance Solar Modules

The AV-OL-75 features dual high-performance solar modules that are angled to maximize sunlight capture, allowing the unit to operate reliably in a wide range of low-sunlight environments.

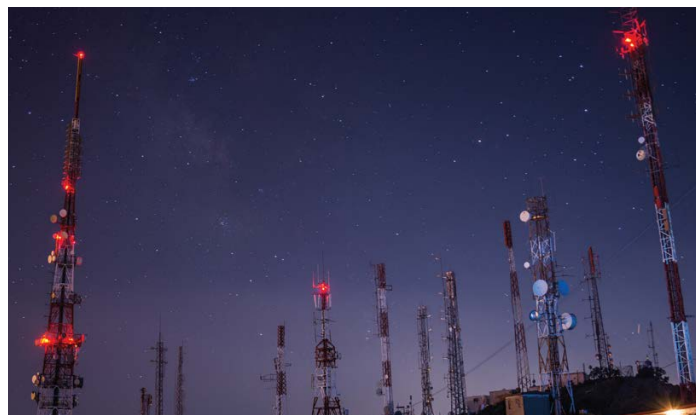
The two built-in, high-performance solar panels charge the 21.5 Ah (B3 only), or 28.8 Ah (B4 only) battery during daylight hours, while an internal light sensor detects ambient light to provide true self-sufficient dusk-to-dawn operation.

Ordering Codes

Part #	Configuration
AV-OL-75-ICAO-B3-00	21.5Ah NiMH Battery, no Charge Port or Switch
AV-OL-75-ICAO-B3-01	21.5Ah NiMH Battery, Switch
AV-OL-75-ICAO-B3-02	21.5Ah NiMH Battery, Charge Port
AV-OL-75-ICAO-B3-03	21.5Ah NiMH Battery, Charge Port and Switch
AV-OL-75-ICAO-B4-03	28.8Ah NiMH Battery, Charge Port and Switch



Use Bluetooth® to monitor light status and geolocation



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AV-OL-75

B3

B4

Light Characteristics

Light Source	LED
Available Colors	Red
Minimum Intensity	Complies with ICAO Type A
Available Operation Modes	Stand by, steady-on, dusk till dawn
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Operating Voltage	3.6
Temperature Range	-40 to 55°C

Solar Characteristics

Solar Module Type	Monocrystalline
Output (Watts)	5 (2 x 2.5 Watts)
Charging Regulation	Microprocessor controlled

Power Supply

Battery Type	Nickel Metal Hydride (NiMH)	
Battery Capacity (Ah)	21.5	28.8
Nominal Voltage (V)	3.6	
Operating time at maximum intensity	266 hours	356 hours

Physical Characteristics

Body Material	LEXAN® Polycarbonate – UV stabilized	
Lens Material	LEXAN® Polycarbonate – UV stabilized	
Lens Diameter (mm/inches)	140 / 5 1/2	
Lens Design	TIR	
Mounting	6 x 17 mm holes on 200mm PCD	
Height (mm/inches)	313 / 12 1/3	
Width (mm/inches)	231 / 9 1/8	
Mass (kg/lbs)	2.55 / 5 5/8	2.93 / 6 1/2
Service Life	12 years plus	

Environmental Standards

Shock	MIL-STD-202G, Test Condition G, Method 213B
Vibration	MIL-STD202G, Test Condition B, Method 204
Wind Speed	Up to 160kph / 100mph
Humidity	0 to 100%, MIL-STD-810F

Compliance

CE	EN61000-6-4:2019 EN61000-6-3:2019
Quality Assurance	ISO9001:2015
ICAO	Low Intensity Obstruction Light Type A
Waterproof	IP68
Trademarks	AVLITE® is a registered trademark of Avlite Systems

Other

Warranty *	3 years
Options Available	External On/Off Switch, Charge Port
Terms and Conditions	Please refer to the light installation manual for further specifications. Warranty Terms and Conditions - www.avlite.com

Technical Specifications