

Solar Powered ICAO Low Intensity Obstruction Light Type A

AV-23

Features

- Integrated solar/battery system
- User-replaceable solar modules
- 10watt solar module
- 7.5Ah SLA battery

Typical Applications

- Solar Obstruction Light (LIOL A)

Compliance

- Low Intensity Type A Obstruction Light, ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', table 6.3



Large 10watt adjustable tilt solar module to maximise solar radiation collection for charging the battery



Next Generation

Single LED Optic ...
Brighter, more efficient

Interchangeable LED flasher unit, and replaceable lens assembly

User-replaceable battery in large high-impact resistant housing

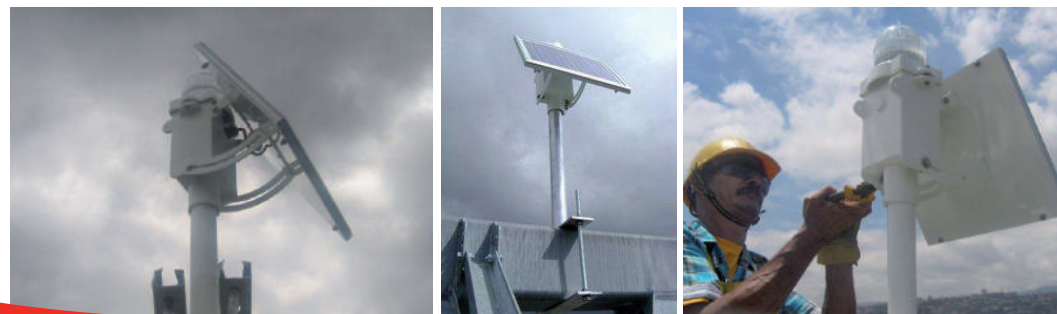
The AV-23 is a low intensity solar powered obstruction light designed to offer users years of maintenance-free operation. The unit is completely self-contained and incorporates a large 10watt solar module, 7.5Ah battery, LED light source and advanced driving circuitry.

During daylight hours the solar module will charge the battery through an advanced switch-mode regulator incorporated into the flasher unit. The light will automatically begin operation at dusk once the ambient light threshold drops sufficiently.

The light is built from heavy-duty cast aluminium - subject to 7-stage powder-coating, and offers users enormous impact and weather resistance.

This completely self-contained unit with integrated solar module and battery system saves users considerably in power, cabling and on-going maintenance associated with traditional incandescent systems.

The AV-23 has been independently tested to be in accordance with the requirements of the photometric and colorimetric specifications for a Low Intensity Type A Obstacle Light listed in table 6-3 of ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations'.



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SPECIFICATIONS* *

AV-23

Light Characteristics

Light Source	As tested AV-OL-ILA-12-R LED
Available colors	Red as standard. Other colors available on request, including IR
Peak Intensity (cd)†	Complies with ICAO LIOLA
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	+4 to +13
Reflector Type	Single LED Optic
Available Flash Characteristics	>250 including steady-on (user-adjustable)
Intensity Adjustments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Current Draw (mA)	Steady-on: 39
Circuit Protection	Integrated
Nominal Voltage (V)	12
Temperature Range	-40 to 80°C

Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	10 (1 x 10watt)
Solar Module Efficiency (%)	14
Charging Regulation	Microprocessor controlled

Power Supply

Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	7.5
Nominal Voltage (V)	12
Battery Service Life	Average 5 years
Autonomy (nights)	Steady-on: >10 Flashing: >45 (14 hour darkness, 12.5% duty cycle)

Physical Characteristics

Body Material	7-stage powder-coated aluminium
Lens Material	LEXAN® Polycarbonate - UV stabilized
Lens Diameter (mm/inches)	107 / 4¼
Lens Design	Single LED Optic
Mounting	50mm OD pole
Height (mm/inches)	365 / 14 ³ / ₈
Width (mm/inches)	295 / 11 ⁵ / ₈
Mass (kg/lbs)	5.5 / 12 ¹ / ₈
Product Life Expectancy	Up to 12 years

Certifications

CE	EN61000-6-3:1997, EN61000-6-1:1997
Quality Assurance	ISO9001:2008
ICAO	Low Intensity Obstruction Light Type A

Intellectual Property

Trademarks AVLITE® is a registered trademark of Avlite Systems

Warranty* 3 year warranty

- Options Available
- IR Controller
 - 200mm bolt pattern mounting plate
 - IR LED

* Specifications subject to change or variation without notice

† Subject to standard terms and conditions

‡ Intensity setting subject to solar availability

