

# AV23

Solar Obstruction Light

**Avlite**  
www.avlite.com  
AUTHORISED DISTRIBUTOR

## Features

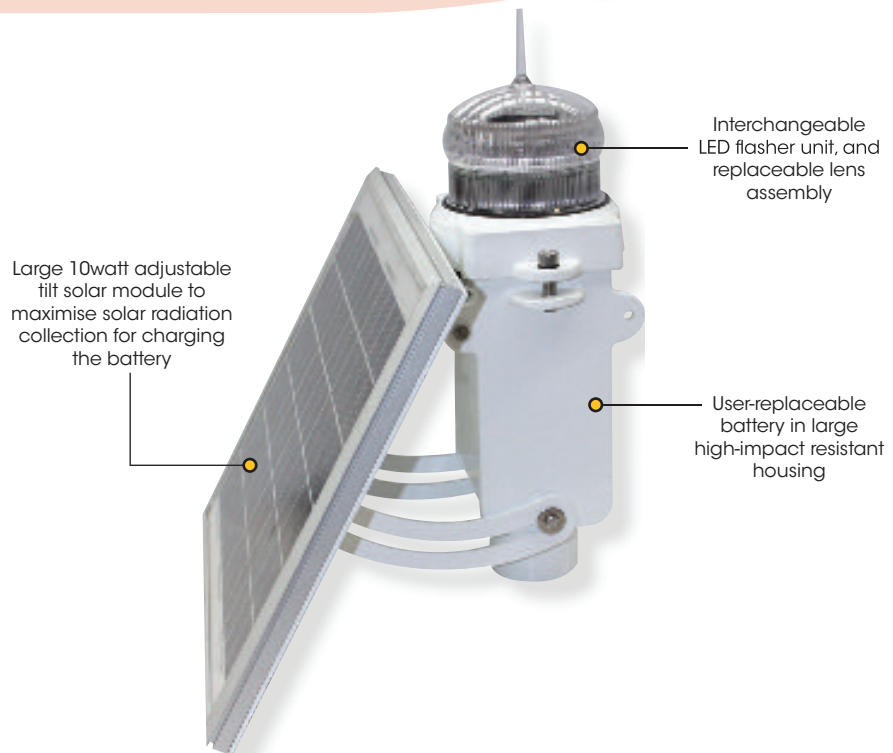
- Integrated solar/battery system
- 10watt solar module
- 7.5Ah SLA battery
- ICAO Compliant AV23 Solar Obstruction Light (LIOL A)
- Ultra-high intensity LEDs (no changing globes ever)

## Typical Applications

- Solar Obstruction Light (LIOL A)

## Compliance

- Low Intensity Type A Obstruction Light, ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Forth edition July 2004, table 6.3



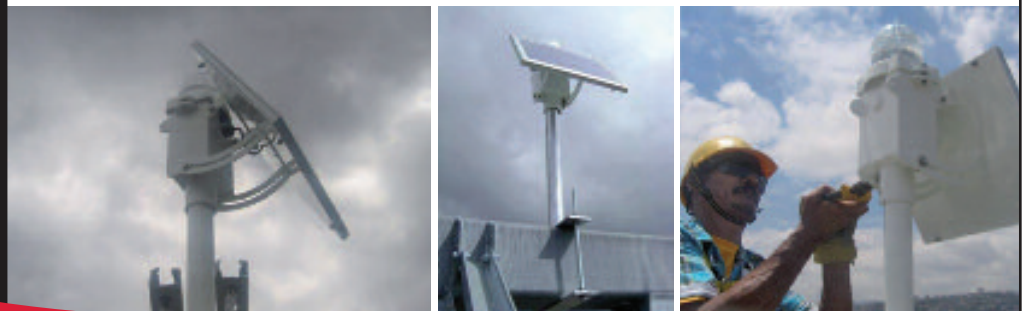
**The AV23 is a low intensity solar powered obstruction light designed to offer users years of maintenance-free operation. The unit is completely self-contained and incorporates a large 10watt solar module, 7.5Ah battery, LED light source and advanced driving circuitry.**

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 AV23 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', Fourth Edition July 2004.



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### SPECIFICATIONS •

#### Light Characteristics

Light Source	20 ultra-high intensity LEDs
Available colors	Red, Green, White, Yellow, Amber, Blue, Sectored Combinations
Peak Intensity (cd)†	Steady-on: Red - 11.4 Green - 20.9 White - 17.4 Yellow - 10.6 Flashing: Red - 31.9 Green - 58.4 White - 48.5 Yellow - 29.6
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	0 to 12+
Reflector Type	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582, AU Pat. No. 778,918)
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)	100 (nominal)
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: >9 Flashing: >42 (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	External optics with interior flute design
Mounting	50mm OD pole
Height (mm/inches)	387 / 15¼
Width (mm/inches)	278 / 10¾
Mass (kg/lbs)	5.5 / 12½
Product Life Expectancy	Up to 12 years

#### Certifications

CE	EN61000-6-3:1997, EN61000-6-1:1997
Quality Assurance	ISO9001:2008

#### Intellectual Property

Patents	US Pat. No. 6,667,582, AU Pat. No. 778,918
Trademarks	AVLITE® is a registered trademark of Avlite Systems

#### Warranty \*

#### Options Available

- Full 3 year warranty
- 200mm OD mounting plate (AV/04)
- IR (AV23.IR)

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

