



Flight Light Inc.
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AV125 Series LED Obstruction Light Avlite

Features

- LED technology
- Made from tough, durable polycarbonate
- Solar powered option available
- GSM monitoring available
- GPS flash synchronization available
- RF control available

Compliance

- ICAO Annex 14 Volume 1, 'Aerodrome Design and Operations', Fourth edition July 2004, Table 6.3

The AV125 has a minimum 32cd between 6 and 10 degrees, and can be used for marking obstacles with heights under 45 meters, in accordance with ICAO Annex 14, Chapter 6.

The AV125 is available as a self-contained solar-powered assembly, including solar array, sealed battery and charge controller, all housed in a weatherproof enclosure. Different size solar arrays are matched to the available sunlight at your location to ensure the unit runs reliably all year round.

The light is one of the most advanced LED aviation lights on the market. Utilizing the latest software and micro-circuitry developments, the light boasts a huge number of features including flash-memory and the most efficient power conversion available.

The tough polycarbonate lens is specifically designed for use with LEDs. The unit is sealed using polycarbonate bonding compounds similar to those used by major automobile manufacturing companies. This also enables a waterproof rating of IP68 - unmatched by other manufacturers.

The LEDs utilize the omnidirectional LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918) to increase the intensity and uniformity of the horizontal output.



Remote monitoring and control capabilities are available from the AV125 light allowing the performance of the units to be monitored from remote sites.

Systems status including battery condition and operational confirmation may be monitored through GSM, radio or satellite communications.

Once installed, the AV125 requires no operator intervention.

Optional Features

GPS Synchronization

Avlite has utilized the latest advancements in GPS technology to develop an internal synchronization system that can be incorporated into the lights. Using overhead satellites, multiple obstruction lights set to the same flash pattern will flash in unison.

RF Synchronization

The AV125 Series of lights are also available with the option of RF Synchronization which allows the user to set lights to the same flash pattern. The lights are fitted with an internal RF module, which operates at a 2.4GHz frequency and has an operational range of 1.5 - 2km between two lights.

Synchronization is achieved via short-range RF communication between the lights, and relies on line-of-sight operation.

RF Control & Synchronization

The AV125 obstruction light is also available with RF control, whereby lights can be operated by a wireless handheld controller, which enables personnel to remotely activate and set specific characteristics of the AV125. Lights can be set to flash in synchronization, turn OFF, or adjust to steady-burn.



GSM Monitoring

Avlite Systems AV125 Series of products are available with optional GSM Monitoring, enabling operators to remotely monitor the status of their aviation installations, any time, any where. The system can also be configured to send out warning SMS text messages to designated cellular telephone numbers.



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The GSM Monitoring System is a completely integrated module (housed internally within the light), designed to allow convenient monitoring of Avlite lights using a cellular telephone and web access from remote locations that have GSM network coverage. The unit has no external aerials - providing convenient installation and retaining the IP68 waterproof rating of the light.

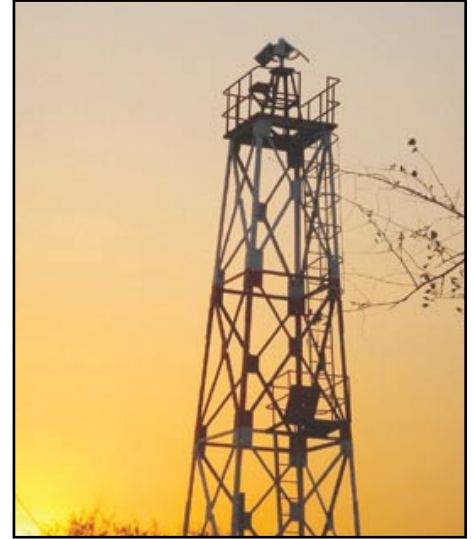
To access the light diagnostics, the user simply sends the light a SMS text message command, and then receives an auto-reply SMS text message outlining the details. In addition, this information is accessible via the web - simply login at any Avlite website and access immediate information about your aviation installation. Historical data is also available from the website.

Major Benefits

- Access light diagnostics remotely - any time, any where via SMS text message
- All functions can be programmed/ pre-programmed remotely
- Flexibility of user-setup
- Web server setup enables ease of access to light diagnostics and historical data via the web
- Pre-programmed alarm conditions automatically reported to designated cell phone numbers

Available Data from Remote Light

- Battery voltage
- Solar module charging current
- Light current draw
- Light position - latitude and longitude (if GPS fitted)
- Day/night on status
- Current flash setting
- Internal light PCB temperature: Normal/High



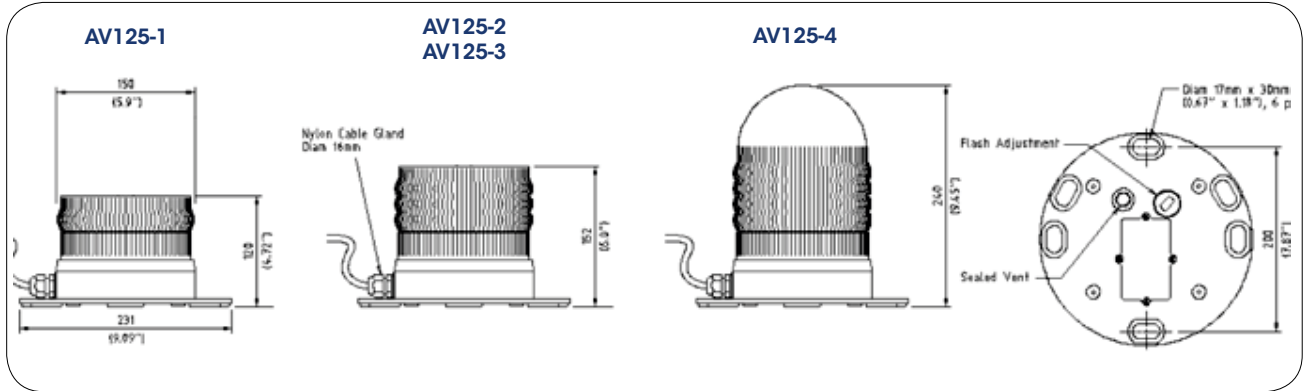
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SPECIFICATIONS •

Light Characteristics

Light Source	36 ultra-high intensity LEDs (standard AV125-1)
Available Colors	Red (other colors available)
Peak Intensity (cd)	AV125-1 = 96cd
Visible Range (nm)	7
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	Complies with ICAO spec for LIOL between 6° and 10°
Reflector Type	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918)
Available Flash Characteristics	>250 including fixed-on (user-adjustable)
Intensity Adjustments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Current Draw (mA)	1 tier = 300mA
Circuit Protection	Integrated
Operating Voltage (V)	12
Temperature Range	-40 to 80°C

Physical Characteristics

Body Material	LEXAN® Polycarbonate - UV stabilized
Lens Material	LEXAN® Polycarbonate - UV stabilized
Lens Diameter (mm/inches)	150 / 5 7/8
Lens Design	External optics with interior flute design
Mounting	6 x 17mm holes on 200mm PC D
Height (mm/inches)	120 / 4 3/4 (AV125-1)
Width (mm/inches)	231 / 9 1/8
Mass (kg/lbs)	1.1 / 2 1/2
Product Life Expectancy	Up to 12 years

Certifications

CE	EN61000-6-3:1997. EN61000-6-1:1997
Quality Assurance	ISO9001:2000
Waterproof	IP68

Intellectual Property

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

Warranty *

3 years

Options Available

- GPS, GSM, Radio remote monitoring
- Other LED colours to suit different applications
- Variety of solar/battery configurations (AV125-C)
- IR

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AV125 Series LED Obstruction Light Avlite

AV125C Type 2
 Shown with optional second panel

AV125-1 light-head (standard)

Automatic night activation

Large extendable solar modules to ensure maximum solar radiation collection (one module standard)

7-stage powder coated aluminium battery housing (IP66 waterproof)

Avlite's AV125 complete assembly provides a total solution for all obstruction, hazard, perimeter and general lighting needs.

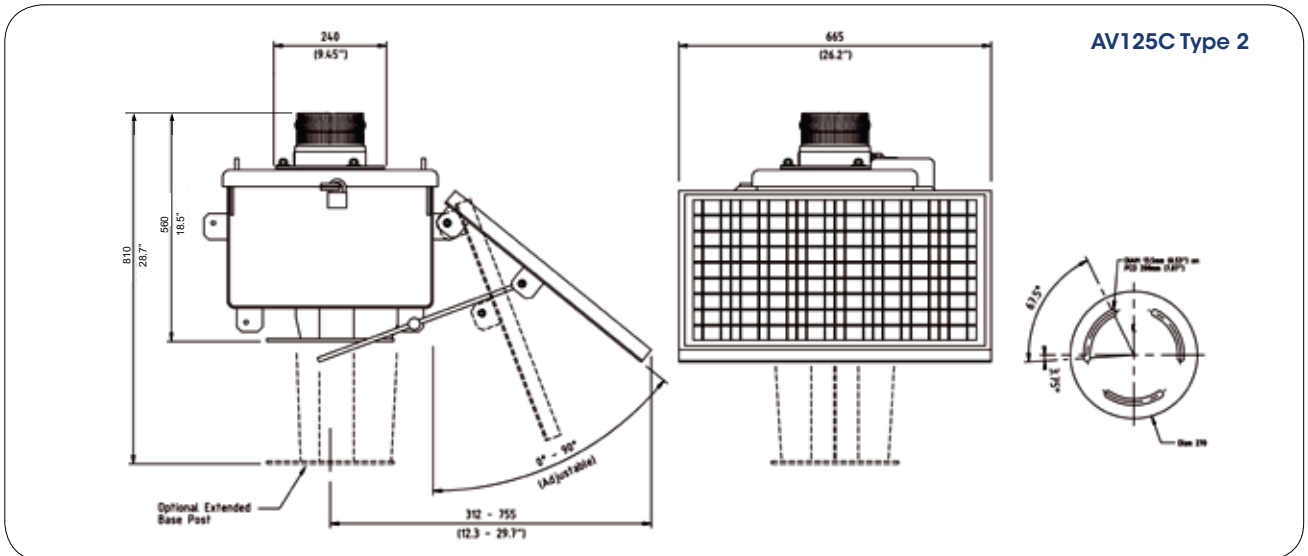
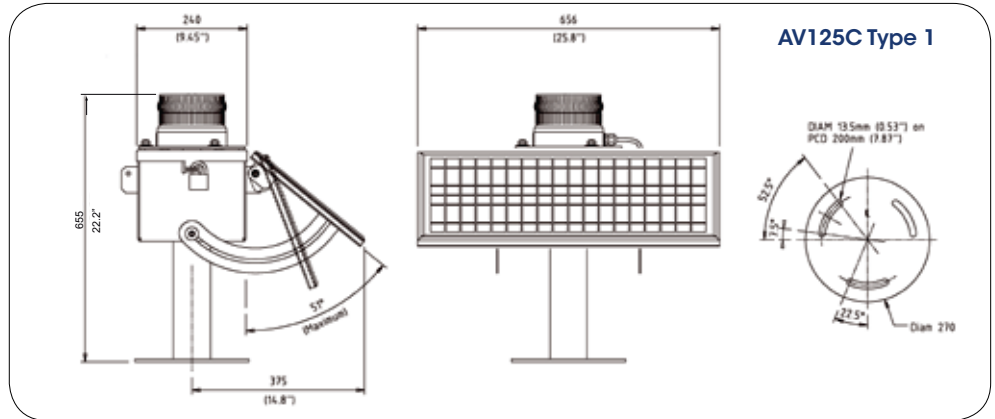
The unit is equipped with a standard AV125 light-head, and uses 36 ultra-high intensity LEDs as a light source. The solar modules charge the battery during daylight hours, and the light automatically begins operation at dusk - once the ambient light threshold drops sufficiently.

The assembly is available in a variety of solar/battery configurations to suit a range of installations and intensity settings, and ensures years of maintenance-free reliable service.



AV125C Type 1
 Shown with optional second panel

Part No.	Solar Array	Battery
AV125	n/a	n/a
AV125/C-1	1 x 20watt	26Ah
AV125/C-2	2 x 20watt	26Ah
AV125/C-1.T2	1 x 40watt	55Ah
AV125/C-2.T2	2 x 40watt	55Ah



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SPECIFICATIONS •

Type 1

Type 2

Light Characteristics

Light Source
 Available Colors
 Peak Intensity (cd)
 Visible Range (nm)
 Horizontal Output (degrees)
 Vertical Divergence (degrees)
 Reflector Type

AV125 Series LED lantern
 Red (other colors available)
 96
 5-7
 360
 9
 Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582, AU Pat. No. 778,918)
 >250 including fixed-on (user-adjustable)
 Adjustable in 25% increments
 >100,000

AV125 Series LED lantern
 Red (other colors available)
 96
 5-7
 360
 9
 Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582, AU Pat. No. 778,918)
 >250 including fixed-on (user-adjustable)
 Adjustable in 25% increments
 >100,000

Electrical Characteristics

Current Draw (mA)
 Circuit Protection
 Operating Voltage (V)
 Autonomy (nights)
 Temperature Range

1 tier = 300mA
 Reverse polarity
 12
 >20 (14 hour darkness, 12.5% duty cycle)
 -40 to 80°C

1 tier = 300mA
 Reverse polarity
 12
 >20 (14 hour darkness, 12.5% duty cycle)
 -40 to 80°C

Solar Characteristics

Solar Module Type
 Output (watts)
 Solar Module Efficiency (%)
 Charging Regulation

Multicrystalline
 20 (AV125-1 and AV125-2 configurations)
 40 (AV125-3 and AV125-4 configurations)
 14
 Microprocessor controlled

Multicrystalline
 40 or 80
 14
 Microprocessor controlled

Power Supply

Battery Type
 Battery Capacity (Ah)
 Nominal Voltage (V)
 Battery Service Life

SLA (Sealed Lead Acid)
 26
 12
 Average 5 years

SLA (Sealed Lead Acid)
 55
 12
 Average 5 years

Physical Characteristics

Body Material
 Lens Material
 Lens Diameter (mm/inches)
 Lens Design
 Mounting
 Height (mm/inches)
 Width (mm/inches)
 Mass (kg/lbs)
 Product Life Expectancy

7 stage powder coated aluminium
 LEXAN® Polycarbonate - UV stabilized
 150 / 5 7/8
 External optics with interior flute design
 200mm OD base pattern
 From 655 / 22 1/4
 656 / 25 3/4
 From 18 / 39 9/8
 Up to 12 years

7 stage powder coated aluminium
 LEXAN® Polycarbonate - UV stabilized
 150 / 5 7/8
 External optics with interior flute design
 200mm OD base pattern
 From 560 / 18 1/2
 665 / 26 1/4
 From 18 / 39 9/8
 Up to 12 years

Certifications

CE
 Quality Assurance
 Waterproof

EN61000-6-3:2001, EN61000-6-1:2000, EN55022, EN61000-4-2:1995, EN61000-4-3:2002
 USCG specification HSCG23-05-R-E43013, including Change 1.
 ISO9001:2000
 IP68 light-head, IP66 battery compartment

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Warranty *

3 years

3 years

Options Available

- Single or dual solar module(s)
- Hard-wire or GPS synchronisation
- Remote monitoring (via AIS, or GSM cell-phone - AV125/C.T1-GSM) or control (via radio - AV125/C.T1-RC) capabilities
- *Note* - remote monitoring/control will reduce visible range of lantern due to increased power consumption

- Single or dual solar module(s)
- 80Ah battery (AV125/C.T2/80Ah)
- 60watt solar module (single or dual configurations)
- Hard-wire or GPS synchronisation
- Remote monitoring (via AIS, or GSM cell-phone - AV125/C.T2-GSM) or control (via radio - AV125/C.T2-RC) capabilities
- Extended base post
- *Note* - remote monitoring/control will reduce visible range of lantern due to increased power consumption

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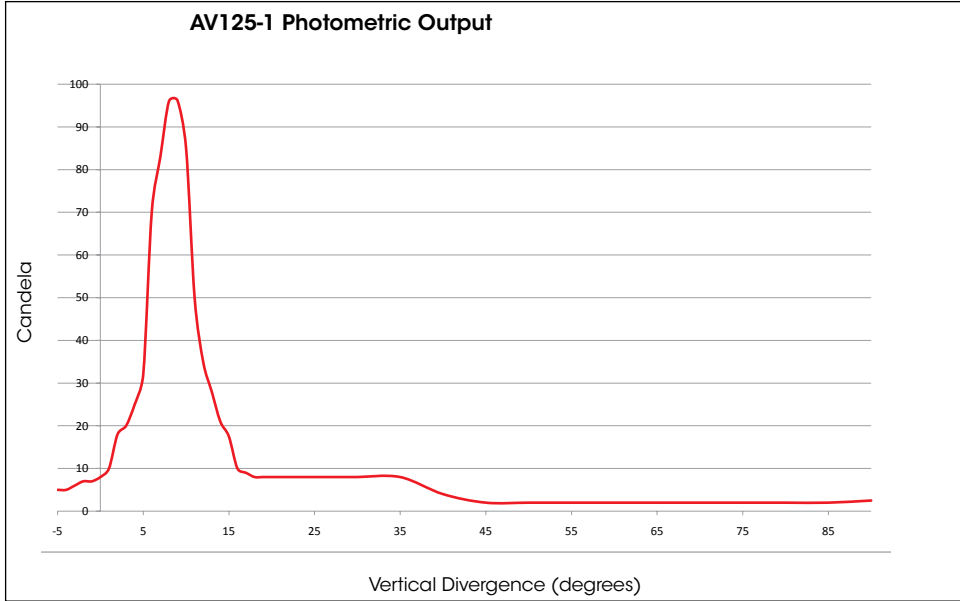


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Photometrics



Peak Intensity (High Intensity)	
RED	96

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