

AV125 Series LED Obstruction Light

Typical Applications

- 12v Obstruction Light

Major Benefits

- 5.4km visible range (flashing standard AV125-1)
- 12v
- IP68 waterproof rating
- Multiple tiers for increased intensity
- Heat dissipating dome lens available for AV125-4 light
- Ultra-high intensity LEDs (no changing globes ever)

Automatic night activation

Tough UV stabilized LEXAN® polycarbonate lens and light base

User-adjustable intensity and flash characteristic settings

Provided with 1mt of cable for ease of installation



The AV125 is one of the most advanced LED aviation lights on the market. Utilizing the latest software and microcircuitry 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.

Once installed, the AV125 requires no operator intervention. The flash characters are easily adjusted on-site by the user, and the light will automatically begin operation at dusk - once the ambient light threshold drops sufficiently.



AV125 obstruction lights mark wind turbines in Gippsland, Australia



AV125 Series



AV125-1

AV125-2

AV125-3

AV125-4

Up to 4 tiers of 36 LEDs are available to increase the light intensity of the AV125 unit. The AV125-2, AV125-3 and AV125-4 have 72, 108 and 144 LEDs respectively.

Each tier of LEDs utilizes 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.

Multiple focal points of the lens then create superior divergence specifications to suit regulations worldwide.

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.

The AV125-4 light utilizes a unique heat-dissipating domed obstruction lens to achieve maximum LED intensity output over a wide range of environmental conditions.

Available with 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.

The GSM Monitoring System is a completely integrated module (housed internally within the light), designed to allow convenient monitoring of Avlite lanterns 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 lantern diagnostics, the user simply sends the lantern an 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 lantern 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 lantern diagnostics and historical data via the web
- Pre-programmed alarm conditions automatically reported to designated cell phone numbers

Available Data from Remote Lantern:

- Battery voltage
- Solar module charging current
- Lantern current draw
- Lantern position - Latitude and Longitude (if GPS fitted)
- Day/night on status
- Current flash setting
- Internal lantern PCB temperature: Normal/High

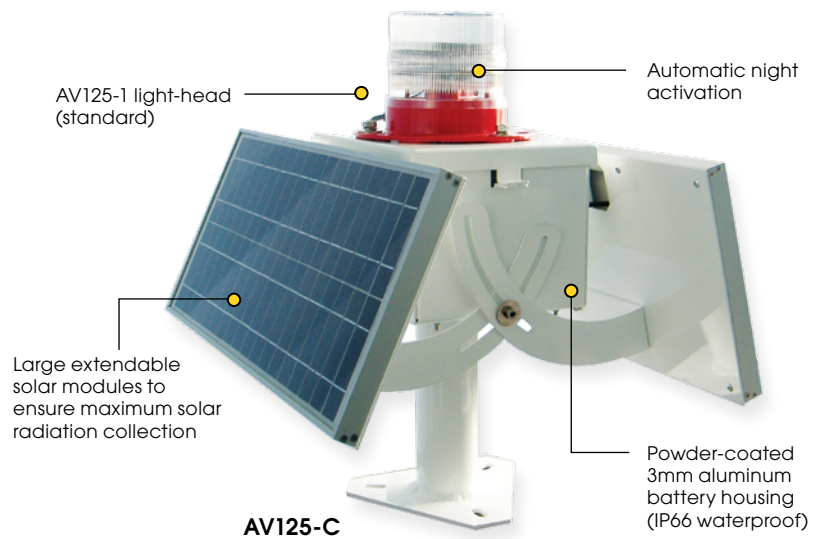
AV125 Series Solar Obstruction Light

Typical Applications

- Solar Obstruction Light

Major Benefits

- Completely self-contained
- No external wiring
- Extremely low maintenance
- 2 x 20watt solar modules
- Internal battery housing IP66 waterproof
- Available with any AV125 Series light-head
- Ultra-high intensity LEDs (no changing globes ever)



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

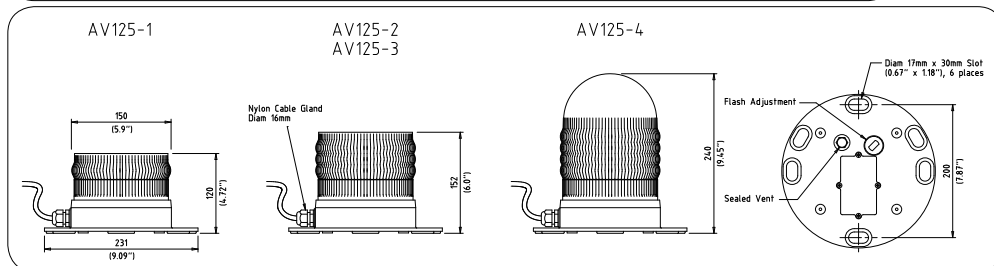
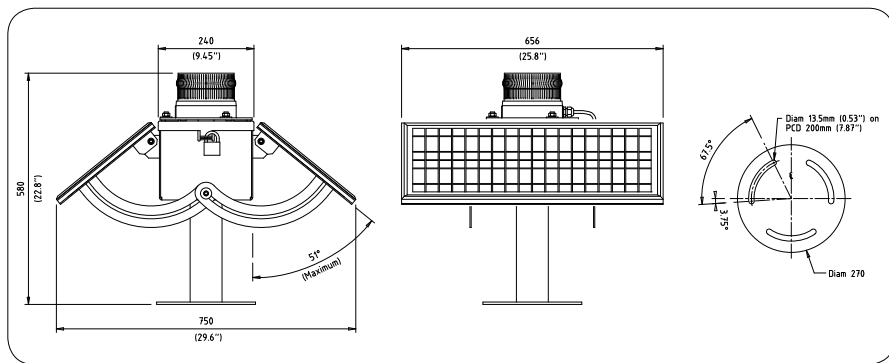
The unit is equipped with a standard AV125 light-head, and uses 36 ultra-high intensity LEDs as a light source. The solar modules charge the battery during daylight hours, and the light automatically begins operation on dusk- once the ambient light threshold drops sufficiently.

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.



AV125-C tower installation, India

AV125 Series



SPECIFICATIONS •

Light Characteristics

Light Source
Available Colours
Peak Intensity (cd)
Visible Range (nm)
Horizontal Output (degrees)
Vertical Divergence (degrees)
Reflector Type
Available Flash Characteristics
Intensity Adjustments
LED Life Expectancy (hours)

36 ultra-high intensity LEDs (standard AV125-1)
Red (other colours available)
Refer to table below
Refer to table below
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)
Temperature Range

Refer to table below
Integrated
12
-40 to 80 °C

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

LEXAN® Polycarbonate – UV stabilized
LEXAN® Polycarbonate – UV stabilized
150 / 5⁷/₈
External optics with interior flute design
6 x 17mm holes on 200mm PCD
120 / 4³/₄ (AV125-1)
231 / 9¹/₈
1.1 / 2¹/₃
Up to 12 years

Certifications

CE
Quality Assurance
Waterproof

EN61000-6-3:1997. EN61000-6-1:1997
ISO9001:2000
IP68

Intellectual Property

Patents
Trademarks

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

Warranty

Full 3 year warranty

Options Available

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

CE

Model	Description	Peak Intensity Flashing (cd)	Colour	LEDs	Current Draw (Amps)	Voltage
AV125-1.R	1 Tier LED Light	87	RED	36	0.42	12v
AV125-1.G	1 Tier LED Light	86	GREEN	36	0.32	12v
AV125-1.W	1 Tier LED Light	136	WHITE	36	0.32	12v
AV125-1.Y	1 Tier LED Light	65	YELLOW	36	0.42	12v
AV125-2.R	2 Tier LED Light	169	RED	72	0.84	12v
AV125-2.G	2 Tier LED Light	168	GREEN	72	0.64	12v
AV125-2.W	2 Tier LED Light	264	WHITE	72	0.64	12v
AV125-2.Y	2 Tier LED Light	125	YELLOW	72	0.84	12v
AV125-3.R	3 Tier LED Light	252	RED	108	1.26	12v
AV125-3.G	3 Tier LED Light	249	GREEN	108	0.96	12v
AV125-3.W	3 Tier LED Light	387	WHITE	108	0.96	12v
AV125-3.Y	3 Tier LED Light	182	YELLOW	108	1.26	12v
AV125-4.R	4 Tier LED Light	332	RED	144	1.68	12v
AV125-4.G	4 Tier LED Light	329	GREEN	144	1.28	12v
AV125-4.W	4 Tier LED Light	519	WHITE	144	1.28	12v
AV125-4.Y	4 Tier LED Light	280	YELLOW	144	1.68	12v

• Specifications subject to change or variation without notice

Intensity (cd)	Range (nm) AT=0.74	Range (nm) AT=0.85
1	1.0	1.1
5	2.0	2.3
15	3.0	3.5
25	3.6	4.3
35	4.0	4.8
55	4.6	5.7
65	4.8	6.0
75	5.0	6.2
90	5.3	6.7
110	5.5	7.1
130	5.8	7.4
150	6.0	7.8
170	6.2	8.1
200	6.5	8.5
270	7.0	9.3
300	7.2	9.6
360	7.5	10.0



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