

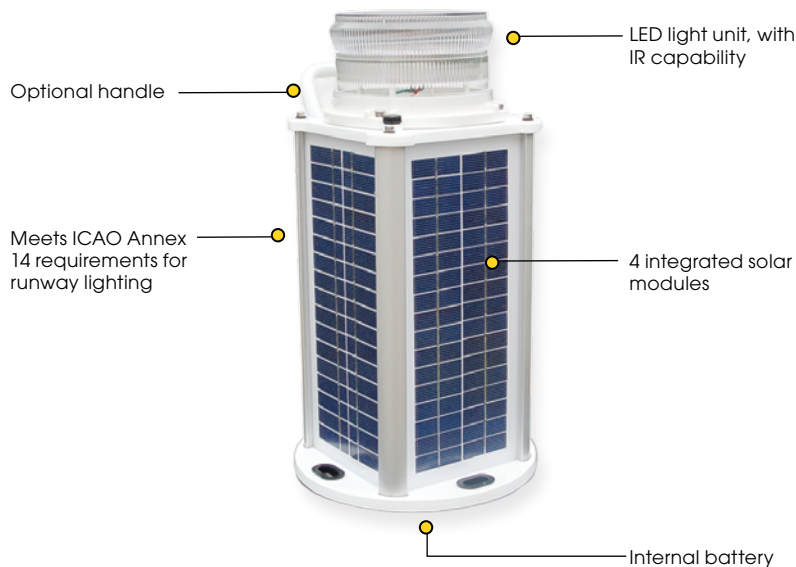
# AVC420 Solar Aviation Light

## Typical Applications

- Solar Runway Edge Light (ICAO)
- Solar Caution Light
- Solar Threshold Light
- Solar Obstruction Light

## Major Benefits

- Integrated solar/battery system
- 4 x 4watt solar modules
- 20Ah SLA battery (user-replaceable)
- IP68 water and dust proof
- Full 3 year warranty



**Avlite Systems' AVC420 is a robust, completely self-contained solar-powered LED light designed for a range of aviation applications including runway and threshold lighting.**

The AVC420 Solar Runway Edge Light is ICAO Approved for use in aerodromes with either extraneous lighting (50cd), or without extraneous lighting (25cd).

The unit is made from cast aluminum, subject to 7-stage powder-coating, and four premium-grade solar modules are integrated into the assembly and mounted to collect sunlight at all angles.

The solar array charges the 20Ah battery during daylight hours, and at dusk the light will automatically begin operation.

The tough polycarbonate lens is specifically designed for use with LEDs, and the patented internal 360° Omnidirectional LED Reflector ensures consistency of light output and intensity.

The in-built solar array will continue to charge the battery throughout daylight hours and at dusk an internal photo-sensor automatically activates the light.

The unit is designed to offer years of maintenance-free service, and is designed for operation in some of the harshest environments, including the Australian outback.



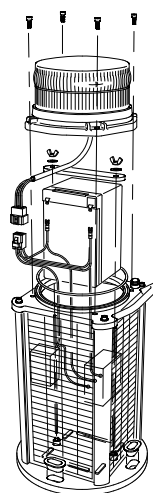
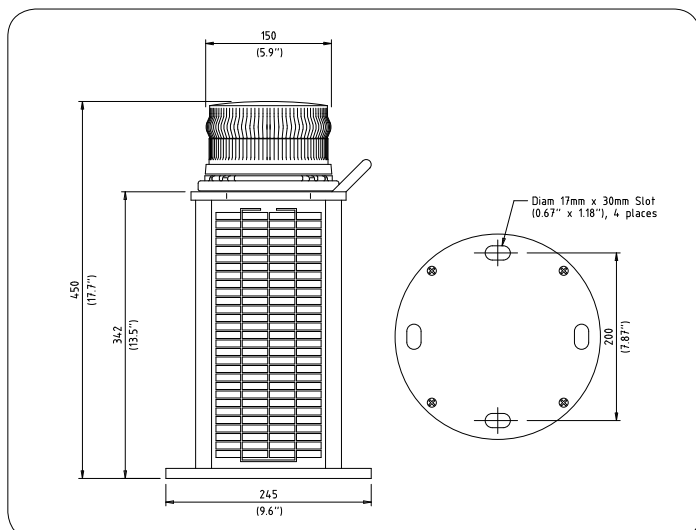
The AVC420 Solar Runway Edge Light meets the requirements of ICAO Annex 14 Volume 1, "Aerodrome Design and Operations", Forth edition July 2004, paragraphs 5.3.9.8 and 5.3.9.9.



## AVLITE SYSTEMS

11 Industrial Drive  
Somerville Victoria 3912 Australia  
Ph: +61 (0)3 5977 6128 Fax: +61 (0)3 5977 6124  
Web: www.avlite.com Email: info@avlite.com





Convenient user-replaceable battery

## SPECIFICATIONS •

### Light Characteristics

Light Source	36 ultra-high intensity LEDs
Available Colours	Red, Green, White, Yellow, Amber, Blue, Sectored Combinations
High Intensity (temporary)	125cd (white)
Medium Intensity (temporary)	50cd
Standard Intensity (cd)	>25cd
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	0 to +15
Reflector Type	Omnidirectional 360° LED Reflector (US Pat. No. 6,667,582. AU Pat. No. 778,918)
Available Flash Characteristics	Fixed-on as standard (>250 available (user-adjustable))
Intensity Adjustments	Adjustable in 25% increments
LED Life Expectancy (hours)	>100,000

### Electrical Characteristics

Circuit Protection	Integrated
Operating Voltage (v)	12
Autonomy	200 hours at standard intensity
Temperature Range	-40 to 80 °C

### Solar Characteristics

Solar Module Type	Multicrystalline
Output (watts)	16 (4 x 4watt)
Solar Module Efficiency (%)	14
Charging Regulation	Regulator controlled

### Power Supply

Battery Type	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	20
Nominal Voltage (v)	12

### Physical Characteristics

Body Material	7-stage powder-coated aluminum
Lens Material	LEXAN® Polycarbonate - UV stabilized
Lens Diameter (mm/inches)	150 / 5 <sup>7</sup> / <sub>8</sub>
Lens Design	External optics with interior flute design
Mounting	4 x 17mm holes on 200mm PCD
Height (mm/inches)	450 / 17 <sup>3</sup> / <sub>4</sub>
Width (mm/inches)	245 / 9 <sup>2</sup> / <sub>3</sub>
Mass (kg/lbs)	10.8 / 23 <sup>3</sup> / <sub>4</sub>
Product Life Expectancy	Up to 12 years

### Certifications

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

Full 3 year warranty

### Options Available

- IR
- Pilot activated
- Radio-controlled
- GSM monitoring

CE

• Specifications subject to change or variation without notice