

10W Solar Infrared Night Vision Aviation LED Light - 30Hz Strobing Rate - 40aH Battery Pack - NEMA

Part #: AVL-NVG-SOL-L810-LED-V1-30C



The Larson Electronics AVL-NVG-SOL-L810-LED-V1-30C Solar LED Strobe Light is an FAA AC 150/5345-43 Compliant unit with applications in aviation and harsh environments. This lighting system contains an infrared LED strobe light, powered by a 30-watt solar panel with a 40aH lithium-ion battery pack. A remote-mounted day/night sensor automates activation and deactivation during use.

The AVL-NVG-SOL-L810-LED-V1-30C is an FAA Compliant solar-powered infrared LED strobe light for aviation sites, covert operations and harsh environments. This powerful lighting system consists of a 30-watt weatherproof solar panel, infrared LED strobe lamp, day/night sensor and 40aH lithium-ion battery pack.

IR LED Strobe Light: The infrared LED strobe lamp is offered in the following infrared wavelengths: 750nm, 850nm or 940nm. Equipped with a 20° vertical and 360° horizontal beam spread, the unit provides syncing capabilities with multiple strobe lamps to 1/60 second. Syncing features are controlled by a master unit, catering up to 100 slave LED fixtures per master. Capable of strobing at a rate of 30 Hz, operators are provided access to a dip switch inside the LED lamp for selection between master and slave.

The lamp housing is waterproof, constructed of corrosion and chemical resistant polycarbonate with a red Pyrex globe, USCG accepted, ABS Type approved, and NEMA 4X compliant and suitable for harsh areas. This LED unit can survive heavy rains from all angles/directions, wind speeds up to 150 mph and 95% relative humidity. During use, the infrared LED strobe light can also tolerate 130°F temperatures for 4+ hours and survive in salt-fog environments (Mil-spec salt fog test). For increased reliability in outdoor locations, this unit is resistant to UV radiation, which ensures no discoloration or cracking for 1 year.

Chemical Environment	Compatibility Rating
Automotive-Related Environments	
Diesel Fuel	Excellent
Gasoline	Excellent
Motor Oil	Excellent
Anti-Freeze (50%)	Excellent
Ethylene Glycol (100%)	Excellent
Windshield Washer Solvent	Excellent
Organic Solvents	
Acetone	Poor
Ethyl Acetate	Poor
Toluene	Excellent
Methylene Chloride	Poor
Methanol	Fair
Ethanol	Excellent
Freon® F113	Excellent
Acids	
36% Sulphuric (Battery)	Excellent
10% Sulphuric	Excellent
10% Hydrochloric	Excellent
100% Acetic	Fair
Bases	
10% Ammonium Hydroxide	Excellent
10% Sodium Hydroxide	Poor
Salt Solutions	
50% Aqueous Zinc Chloride	Excellent
10% Aqueous Sodium Chloride	Excellent
10% Zinc Chloride	Excellent

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LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

Solar Panel/Sensor: The 30-watt solar panel is equipped with a 40aH lithium-ion battery pack. At full charge, the system is capable of operating for 36 hours without sunlight or 3 full evenings without light. As with all solar powered equipment, charging time is affected by the amount of available ambient light. When ambient light levels drop below a certain level, such as on very cloudy days, the unit will not recharge. The solar panel is weatherproof and designed to catch the maximum amount of sunlight possible when properly mounted. The day/night sensor is programmed to activate the infrared LED light when ambient lighting reaches 35fc (minimum); and deactivate the strobe lamp when ambient lighting reaches 60fc (maximum).

Wiring: The LED strobe light is connected to the panel by 10` of 16/2 SOOW cord that provides flexibility for positioning of the solar panel and equipment into their respective optimum locations independently of each other. A 30` cable connects the day/night sensor to the solar panel.

Mounting: The AVL-NVG-SOL-L810-LED-V1-30C is compatible with inverted ceiling, wall or surface mounting requirements. Operators may access one, 3/4" NPT hub on the unit for mounting the LED strobe light during installation. The mounting apparatus for the solar panel is designed to allow a variety of options, including flat surfaces, such as a wall and square or round pole mounting. The sensor is remote-mount compatible.

Applications: Aviation, airspaces, helipads, signaling, military, aircraft hangars, FAA compliance, harsh locations, covert operations, marine locations, outdoor sites, remote notifications, industrial sites and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Specifications / Additional Information**AVL-NVG-SOL-L810-LED-V1-30C FAA Compliant Solar-powered LED Strobe Light****Solar Panel Specs****Operation:** Day/Night**Panel Dimensions:** 14.3"-W x 27.89"-L x 3.19"-D**Weight:** 15 lbs**Ambient Temp:** -45°C to +55°C**Runtime:** 36 Hours (w/o Sunlight); 3 Full Evenings (w/o Light)**Charging Time:** 5 Hours**Battery:** (1) 40aH Lithium-ion Battery Pack**Mounting:** Surface or Pole**Wiring:** 10' 16/2 SOOW**IR LED Strobe Light Specs****Lamp Type:** Infrared LED**Lamp Dimensions:** 5.94"-Diameter, 9.6" Height**Weight:** 3 lbs**Voltage:** 12V DC or 24V DC**Total Watts:** 10W**Lumens:** -**Lamp Life:** 50,000+ Hours**Luminous Efficacy:** -**Infrared Wavelength Options:** 750nm, 850nm or 940nm**IR Beam Spread:** 20° Vertical; 360° Horizontal**Lighting Configuration:** Strobe**Strobe Rate:** 30 Hz**Power Efficiency:** >95%**Power Factor:** 0.992**Amp Draw:** 0.84A @ 12V, 0.42A @ 24V**Ambient Operating Temp Range:** -50° C to +85°C**Relative Humidity:** 95%**Housing Material:** Polycarbonate**Lens Material:** Hardened Borosilicate Glass**Mounting:** Surface/Ceiling/Wall**Ratings/Approvals**

FAA AC 150/5345-43

FAA Compliant

Listed for United States and Canada

IP66

NEMA 3, 4, 4X

UL 1598 Luminaries

UL1598A Marine Luminaries

UL 94-V-0 Flame Retardant

USCG Accepted

ABS Type Approved

150 MPH Wind Tolerance (Light)

Exposure to 130°F (4+ Hours)

UV Radiation Resistant

Salt Fog Environment (Mil-spec Salt Fog Test)

Harsh Environments

Covert Operations

Mounting Hub: (1) 3/4" NPT Hub

System Specs

Master/Slave Configuration: Up to 100 Slave Fixtures per Master

Sync Controls: Master; to 1/60 Second

Master/Slave Selection: Dip Switch

Sensor Type: Day/Night

Sensor Activation: 35fc (Minimum)

Sensor Deactivation: 60fc (Maximum)

Sensor Configuration: Remote Installation

Sensor Wiring: 30` Between Sensor and Panel

Special Orders- Requirements

Contact us for special requirements

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Options:

AVL-NVG-SOL-L810-LED-V1-30C- IR WAVELENGTH

Example: AVL-NVG-SOL-L810-LED-V1-30C-750NM

IR WAVELENGTH	
750nm	-750NM
850nm	-850NM
940nm	-940NM

Links (Click on the below items to view):

- [Hi-Res Image 1- Solar Infrared Night Vision Aviation LED Light](#)