

Solar LED Elevated Runway Guard Light

AV-ERGL (FAA & ICAO)



The elevated LED Runway Guard Light is a unidirectional, yellow, alternately flashing fixture that provides a warning to pilots and vehicles that they are approaching an active runway. The solar ERGL installs in minutes with no trenching, cabling, or mains power required, and can be easily and quickly relocated.

The ERGL provides 24-hour unidirectional marking for runways and taxiway intersections with 45-50 alternating yellow flashes per minute at the hold position. The Elevated Runway Guard Light (ERGL) is typically installed in a pair, with one on either side of the taxiway holding position.

The two optical assemblies use energy efficient LEDs and the light beam elevation is adjustable in one degree increments. The integrated solar module and battery system offers considerable savings in power and installation costs. The solar module can be angled to maximize solar collection to charge the battery.

With the use of solar and energy efficient high intensity LEDs there is a significant reduction in maintenance costs, time and the added expenses associated with re-lamping. Avlite's LEDs have an expected life span of more than 100,000 hours.

Avlite systems strives to be environmentally responsible by providing clean, green, renewable energy sources with a minimal environmental footprint.



Features

- Adjustable light beam elevation with positive locking in one-degree increments
- High-strength, powder coated frame with aluminium housing and stainless steel hardware
- 2-inch frangible coupling and tether with positive lock canting
- 300 MPH jet blast resistant

Cost Effective

- Energy efficient LED lights with an average life span of over 100,000 hours
- Low maintenance - no special tools required

Applications

- Increase visibility at the hold position during severe weather conditions
- Traffic signals for airport service roads

Compliance

- FAA AC 150/5345-46 (Current Edition) for L-804 applications - Engineering Brief No. 67
- Compliant to ICAO Annex 14, Volume 1, 2013 - Para 5.3.23 & Appendix 2 Figure A2-24, A2-25

Optional Add Ons

- Monitoring - dry contact output



Technical Specifications*

AV-ERGL	Low Intensity		High Intensity
General Characteristics			
Light Source	Energy efficient, high intensity LEDs		
Available Colors	Traffic Signal Yellow, other colors available on request		
Peak Intensity (cd)*	300cd daytime; 30cd night	3000cd daytime; 300cd night	
Intensity Adjustments	Configurable based on application. Typically two step (Dusk & Dawn)		
LED Life Expectancy (hours)	>100,000		
Electrical Characteristics			
Circuit Protection	Integrated		
Operating Voltage (V)	24		
Current Draw	V	I	W
Day Mode	24.0V	90.8mA	2.18W
Night Mode	24.0V	46.7mA	1.12W
Solar Characteristics			
Solar Module Type	Multicrystalline		
Output (Watts)	85	170	
Solar Module Efficiency (%)	14		
Power Supply			
Battery Type	SLA (Sealed Lead Acid)		
Battery Capacity (Ah)	110	220	
Nominal Voltage (V)	24		
Physical Characteristics			
Body Material	High-Strength, powder coated frame and aluminum housing		
Hardware Material	Stainless steel		
Mounting	Light head: FAA compliant 2-inch frangible coupling with tether and baseplate with 6 hole bolt pattern Power supply: Fuse Bolts certified to FAA AC 150/5220-23		
Height (inches/mm)	24.5 / 625		24.5 / 625
Length (inches/mm)	80 / 2032		80 / 2032
Width (inches/mm)	52 / 1321 Note: Dimensions based on single solar sled	104 / 2642 Note: Dimensions based on dual solar sled	
Certifications and Compliance			
CE	EN61000-6-3:1997 EN61000-6-1:1997		
Quality Assurance	ISO 9001:2015		
ICAO	ICAO Annex 14, Volume 1, 2013 - Para 5.3.23 & Appendix 2 Figure A2-24, A2-25 Compliant		
FAA	L-804 AC 150/5345-46 (Current Edition) - Engineering Brief No. 67 Compliant		
Intellectual Property			
Trademarks	AVLITE® is a registered trademark of Avlite Systems		
Warranty *	1 year		
Options Available	• Monitoring		

CE • Specifications subject to change or variation without notice.
 * Subject to standard terms and conditions.
 † Intensity setting subject to solar availability.

How to Order ERGL

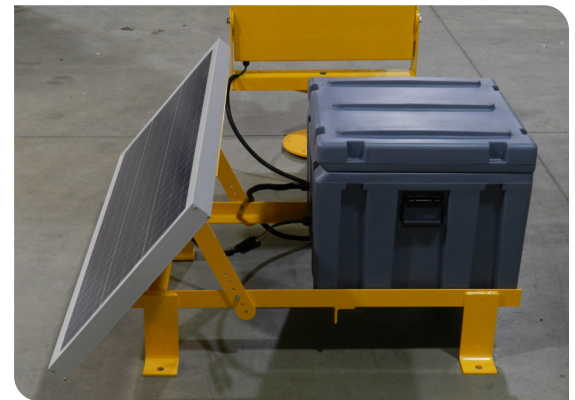
AV-ERGL-24 - [?] - [??]

Product No.: _____
Model: _____
 24 = 24VDC
Color: _____
 R = Red
 Y = Yellow
Intensity (Day/Night): _____
 HI = 3000cd / 300cd
 LO = 300cd / 30cd

How to Order Solar Power Supply

AV-PS - [???]- [???] - [??] - [??]

Product No.: _____
Battery Capacity: _____
 110 = 110Ah
 220 = 220Ah
Solar Output: _____
 85 = 85 Watts
 170 = 170 Watts
Mount Type: _____
 GM = Ground Mount
 PM = Post Mount
Bolts: _____
 01 = With Frangible Bolts
 02 = Without Frangible Bolts



Angle of the solar panel can be adjusted to maximize solar collection.

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