Solar LED Elevated Runway Guard Light

FAA & ICAO AV-ERGL

Features

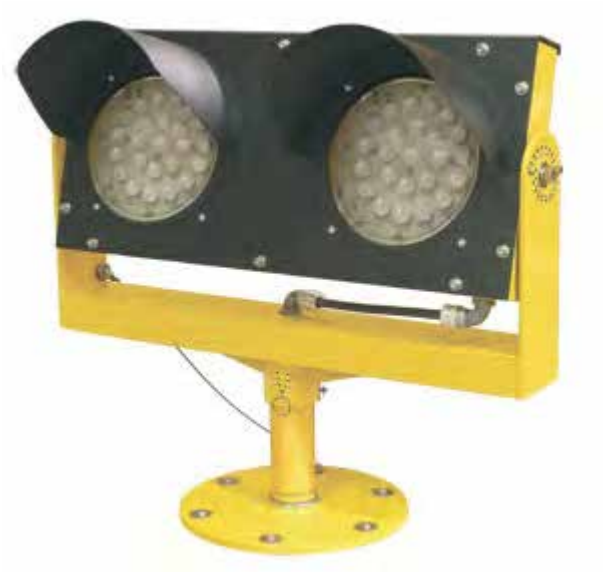
- Energy Efficient LED Lights with an average life span of over 100,000 Hours
- Adjustable light beam elevation with positive locking in one-degree increments
- Low Maintenance - with no special tools required
- High-Strength, powder coated frame with aluminium housing and stainless steel hardware
- 2-inch frangible coupling and tether with positive lock canting
- 300 MPH jet blast resistant
- Monitoring is available - dry contact output

Applications

- LED Runway Guard Light is used to increase visibility at the hold position during severe weather conditions
- Traffic signals for airport service roads

Compliance

- Compliant to 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



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.

Angle of the solar panel can be adjusted to maximise solar collection

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 maximise 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.

Avlite®
www.avlite.com

Avlite Systems
AUSTRALIA
t: +61 (0)3 5977 6128

USA
t: +1 (603) 737 1310

w: **www.avlite.com**
e: **info@avlite.com**

V2_2013

Solar LED Elevated Runway Guard Light

FAA & ICAO AV-ERGL

SPECIFICATIONS • *	AV-ERGL	
	Low Intensity Model	High Intensity Model
Light Characteristics		
Light Source	Energy Efficient high intensity LEDs	Energy Efficient high intensity LEDs
Available colors	Traffic Signal Yellow, other colours available on request	Traffic Signal Yellow, other colours 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)	Configurable based on application. Typically two step (Dusk & Dawn)
LED Life Expectancy (hours)	>100,000 hours	>100,000 hours
Electrical Characteristics		
Circuit Protection	Integrated	Integrated
Operating Voltage (V)	24V	24V
Solar Characteristics		
Solar Module Type	Multicrystalline	Multicrystalline
Output (watts)	85W	170W
Solar Module Efficiency (%)	14	14
Power Supply		
Battery Type	SLA (Sealed Lead Acid)	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	110	220
Nominal Voltage (V)	24	24
Physical Characteristics		
Body Material	High-Strength, powder coated frame and aluminium housing with stainless steel hardware	High-Strength, powder coated frame and aluminium housing with stainless steel hardware
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	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 (mm/inches)	625 / 24½	625 / 24½
Length (mm/inches)	2032 / 80	2032 / 80
Width (mm/inches)	1321 / 52 Note: Dimensions based on single solar sled	2642 / 104 Note: Dimensions based on dual solar sled
Environmental Factors	Compliant to FAA AC 150/5345-46 (Current Edition) for L-804 applications - Engineering Brief No. 67	Compliant to FAA AC 150/5345-46 (Current Edition) for L-804 applications - Engineering Brief No. 67
Certifications		
CE	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:1997. EN61000-6-1:1997
Quality Assurance	ISO9001:2008	ISO9001:2008
Intellectual Property		
Trademarks	AVLITE® is a registered trademark of Avlite Systems	AVLITE® is a registered trademark of Avlite Systems
Warranty *	1 year warranty	1 year warranty
Options Available	• Monitoring is available	• Monitoring is available

• Specifications subject to change or variation without notice

* Subject to standard terms and conditions

† Intensity setting subject to solar availability

CE

HOW TO ORDER

LED Elevated Runway Guard Light

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-[?]-[?]-[?]-[?]

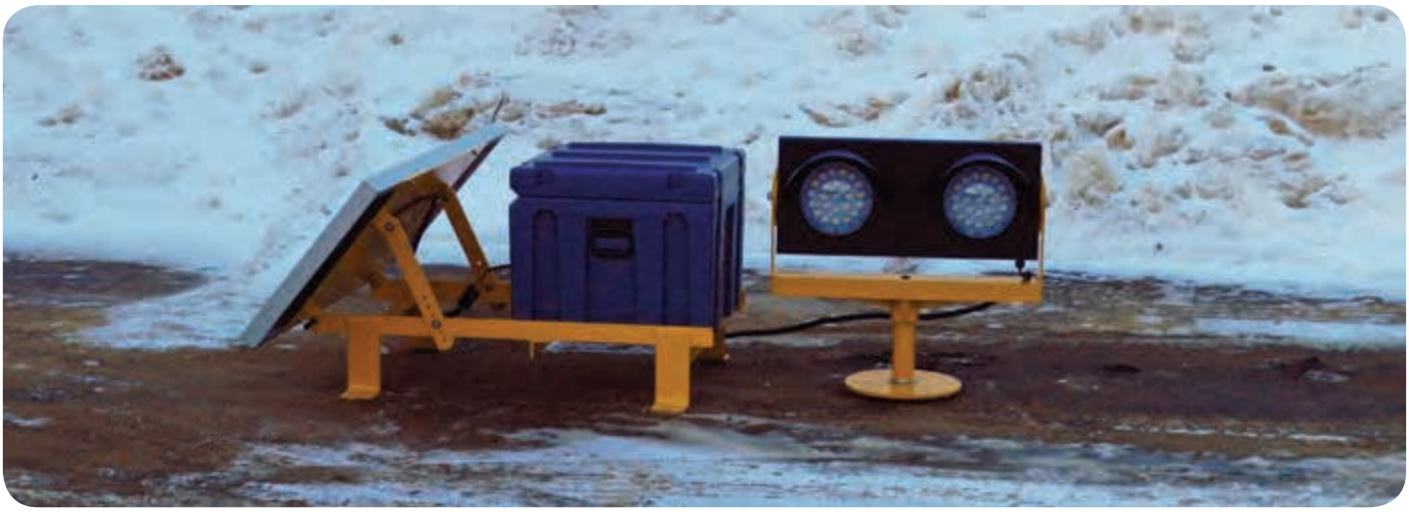
Product No.:

Battery Capacity:
110 = 110 Ah
220 = 220 Ah

Solar Output:
85 = 85 watts
170 = 170 watts

Mount Type:
GM = ground mount
PM = post mount

Bolts:
01 = w/ frangible bolts
02 = w/o frangible bolts



Avlite®
www.avlite.com

Avlite Systems
AUSTRALIA
t: +61 (0)3 5977 6128

USA
t: +1 (603) 737 1310

w: **www.avlite.com**
e: **info@avlite.com**