

Solar Elevated Runway Guard Light (ERGL)

Flash Technology's solar Elevated Runway Guard Light (ERGL) provides a distinctive warning to pilots that they are approaching a runway holding position and are about to enter an active runway. The ERGL has a high-intensity LED light source and is powered by our industry leading solar engine power supply (SEPS).

- Provides 24-hour unidirectional marking at runway and taxiway intersections
- Installs in minutes and can be relocated just as quickly
- Includes LED lights, frangible column and tether
- Fixture flash-rate is controlled from an intelligent lighting control system module located in the SEPS; alternating flashes, 45-50 per minute
- Adjustable light beam be aimed both vertically and horizontally (0-20° vertically; ±20° horizontally)
- Significant reduction of maintenance costs and re-lamping expenses through long-lasting LED technology—average LED life of 56,000 hours under high-intensity conditions and more than 100,000 hours under actual operating conditions
- 7+ days of autonomy—scalable to meet requirements up to 40 days
- 5+ years of battery life



SEPS Models

The ERGL is available in 2 SEPS models: standard and wireless. With the standard SEPS, the unit runs 24/7. The wirelessly-controlled SEPS allows the unit to be activated remotely via the Handheld Controller, with either 900 MHz or 2.4 GHz communication.

Fixture Construction

The ERGL fixture is fabricated from corrosion-resistant materials and all exterior surfaces are painted aviation yellow for added protection and visibility. Includes high-strength ERGL base plate. The 2 ERGL light sources are surrounded by a black face plate and independent visors to reduce the amount of incident sunlight, thereby maximizing the contrast during the LED on/off cycle.

Installation

ERGL systems are typically installed in pairs with 1 unit on either side of the taxiway holding position. The ERGL should be installed according to FAA AC 150/5340-30. The SEPS should be installed on a level concrete pad within 20 feet of the ERGL. For a temporary application, the wiring between the SEPS and the ERGL can be above ground. Both the ERGL and SEPS contain side conduits for cabling access.

ERGL

OPERATING CONDITIONS

Temperature	-40 to +131 °F (-40 to +55 °C)
Humidity	0-100%
Wind	Withstands velocities up to 300 mph (480 kph)

SEPS SPECIFICATIONS

Installed Weight	132 lbs (59.8 kg)
Shipping Weight	Box 1 (SEPS): 76 lbs (34.4 kg)
	Box 2 (battery): 68 lbs (30.8 kg)
Installed Dimensions	42.9 x 29.9 x 17.4" (1089 x 759 x 441 mm)
	With wireless antenna at 55° tilt
Shipping Dimensions	Box 1 (SEPS): 46.9 x 25.5 x 14" (1191 x 647 x 356 mm)
	Box 2 (battery): 13.1 x 8.3 x 7.4" (332 x 210 x 188 mm)
Temperature	Operating: -22 to +122 °F (-30 to +50 °C)
	Storage: -40 to +176 °F (-40 to +80 °C)
Chassis	Weather and corrosion-resistant construction of stainless steel and powder-coated aluminum
Mounting	Frangible couplings and floor flange mounts
Wind Loading	300 mph (480 kph) min. installed at 55° tilt
Tilt	15°, 35°, 55°
Diagnostics	Onboard feedback indicators for: battery status, system status, battery reverse polarity and solar panel reverse polarity
Certifications	ROHS, WEEE, CE, FCC

BATTERY

Power	12 VDC 105 A-hr at C/100 discharge rate
Type	Replaceable and recyclable, absorbent glass mat (AGM) SLA
Lifetime	4,000 cycles to 20% depth of discharge at +68°F (+20°C)
Charger	Temperature-compensated, maximum power point tracking (TC-MPPT)

LED DRIVER

Channel A	18-38 VDC from 0.3-1.4 A 5-100% duty cycle, constant current
Channel B	18-38 VDC from 0.3-1.4 A 5-100% duty cycle, constant current
Automatic Light Control (ALC)	ALC dynamically adjusts brightness in response to amounts of sunlight to ensure continued autonomous operation Available on channels A and B
Control, Autonomous Mode	Dusk-to-dawn flashing or 24-hour flashing
Load Cabling	22' (6.7 m) cable can exit onto the surface or down into a ground pot

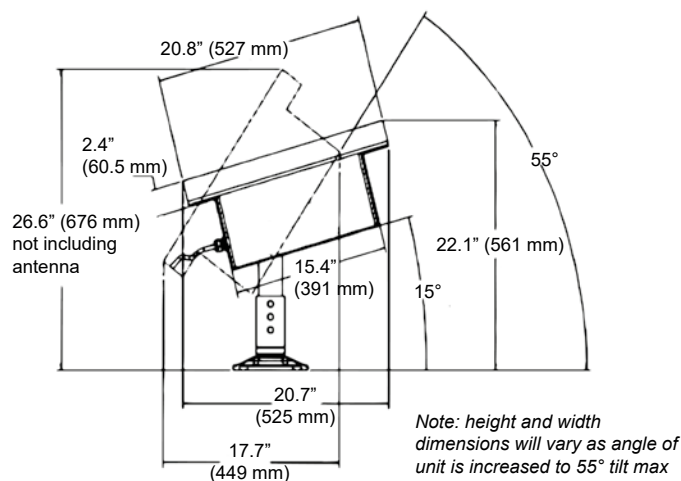
PV PANEL

Power	95 W
Type	High-efficiency monocrystalline, IEC 61215
Lifetime	10 years at 90% output

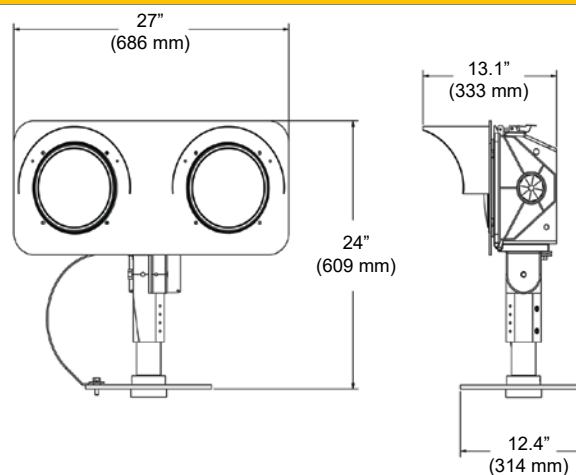
WIRELESS

Radio	900 MHz FHSS with encryption
	2.4 GHz DSSS with encryption
Control, On-Demand Mode	Seamless integration with existing Flash Technology wireless solar products
	Up to 8 independent groups Flash, emergency, autonomous, on-demand temporary (high, medium, low), configuration and ARCAL modes

SEPS DIMENSIONS



ERGL DIMENSIONS



FLASH TECHNOLOGY

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