Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

## EXP-EMG-25W-2L

# 50W Emergency LED Lighting System - 90 Minutes - Explosion Proof Bug Eyes - 120/277V - C1D1&2

**Product ID: 146280**

**Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).**



Image: EXP-EMG-25W-2L

**Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.**

**EXP-EMG-25W-2L**

**Listing:** United States
**Lamp Type:** LED
**Dimensions:** 28.67"-H, 33.50"-W
**Voltage:** 120-277V AC 60Hz
**Total Watts:** 50
**Total Lumens:** 5,500
**Total Lumens (Emergency Power):** 3,000 (1500 per lamp)
**Luminous Efficacy:** 110 Lm/W
**Lamp Life:** 50,000+ Hours
**Color Temp:** 6000K, 4300K, 3000K
**Color Rendering Index:** >75 CRI
**Beam Angle:** 360°
**Lighting Configuration:** "Bug Eyes" Dual light heads
**Power Efficiency:** 90%
**Power Factor:** >0.95
**Amperage:** 0.44A @ 120V, 0.20A @ 277V
**Lamp Ambient Operating Temp:** -25°C to +50°C
**Lamp Housing Material:** Copper Free Aluminum Housing
**Lens Material:** Diffused Borsolate Glass
**Mounting:** Non-Sparking Aluminum Housing

**Ratings/Approvals:**

Class I, Division I & II, Groups C & D
Class II, Division I & II, Groups E,F,G
Class III
IP67 (water proof) rating
UL 844
UL 924
UL 924
T3C Temperature Rating
NFPA101 (Life Safety Code)

**Mounting:** Wall/Flat Surface Mount
**Wiring:** 3/4" NPT Threaded for Conduit
**Battery Backup Runtime:** 90 Minutes
**Test Switch:** Yes - Momentary (single pole)
**Battery Type:** High Temp Nickel-Cadmium (Maintenance free)
**Battery Input Voltage:** 120/277V AC 60Hz
**Battery Input Power Rating:** 9.5 Watts
**Battery Output Voltage:** 120/277V AC 60Hz
**Battery Output Current:** 165 mA @ 120V
**Battery Output Power:** 50 Watts (Max)
**Battery Operating Temp:** 0°C to +50°C
**Battery Recharge Time:** 24 hours from full discharge
**Battery Charge Current:** 90 mA
**Battery Life Expectancy:** 10 years

**Special Orders - Special Requirements**
Contact us for special requirements
**Toll Free:** 1-800-369-6671
**Intl:** 1-903-270-1187
**Fax:** 1-903-765-7664
**E-mail:** sales@larsonelectronics.com

## Made in the USA

**The EXP-EMG-25W-2L Explosion Proof Emergency Light with back up emergency battery from Larson Electronics is rated Class I Division 1 Class II Division 1 & 2 and is an ideal emergency lighting solution for hazardous locations where failsafe lighting reliability is a must. The EXP-EMG-25W-2L is equipped with two 25W LED modules that each produce 2,750 lumens for a total power draw of 50 watts and 5,500 total lumens. Under emergency power, this explosion proof LED light produces 3000 lumens for 90+ minutes.**

The EXP-EMG-25W-2L is an ideal solution for operators who wish to ensure their hazardous workspaces employ the most effective and reliable safety lighting options available. Under normal conditions this emergency lamp uses normal external power to illuminate its two 25 watt LED lamps. In the case of power outages or in any situation where power is interrupted, this unit automatically switches to a battery backup which will power the unit for 90 minutes at 1500 lumens per lamp or until power is restored. Once power is restored a built in charger will return the unit to a fully charged state within 24 hours.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

Unlike the glass tube design of traditional fluorescent lamps, these LED T-Style lamps have no filaments or fragile housings to break during operation. Instead of 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. The LED assembly is mounted to the "tube" constructed from extruded aluminum, with a polycarbonate lens protecting the LEDs. 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 fluorescent 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 fluorescent lighting.

**LED Benefits:** Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. 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 is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

This explosion proof emergency lighting fixture carries an integral maintenance-free, sealed, high temperature Nickel-Cadmium battery backup power supply. When external power is cut due to outages or accidents this lamp automatically switches to its battery backup which will power the LED bulbs at 1500 lumens per lamp for 90 minutes. The battery is protected from deep discharge by solid state circuitry which senses low voltage and turns off the unit before battery damage can occur.

This emergency light is universal voltage capable and can operate with voltages ranging from 120V to 277V @ 50/60HZ. This unit`s housing and LED light fixtures are constructed of copper-free aluminum that is epoxy powder coat finished to protect the aluminum surfaces. The EXP-EMG-25W-2L can withstand temperature variances ranging from 0° to 50°C and its low maintenance design offers up to ten years of operational life. An integrated pilot light indicates the presence of AC current and a test switch allows easy confirmation of proper emergency operation.

---

**Made in the USA Quality**

1. No Maintenance Nickel-Cadmium Battery.
2. Copper Free Aluminum Alloy Construction.
3. Universal 120 through 277V AC Operation
4. 90 Minute Battery Backup Runtime.
5. Deep Discharge Battery Protection.
6. 3/4" NPT Conduit Hub.
7. Epoxy Powder Coat Finish.
8. 10 Year Rated Lifespan.
9. Fully Automatic Operation.
10. Solid State Internal Electronics.
11. Pilot Light AC Current Indicator.
12. Test Switch for Emergency Operation Confirmation.
13. Fully Electronic Circuit Control.
14. 5500 total lumens while drawing 50W.
15. Each lamp produces 1500 lumens for 90 minutes under emergency power.

**Superior LED Benefits**

1. 50,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LEED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off - No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.

14. Less frequent outages, higher output improves workplace safety.

---

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.

---

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

# Frequently Asked Questions (FAQ)

There are no Faqs




Image: EXP-EMG-25W-2L side view of the emergency backup led light fixture

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664



Image: EXP-EMG-25W-2L rear view of the led emergency ballast backup light



Image: EXP-EMG-25W-2L bottom view of the led emergency backup led lighting system

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

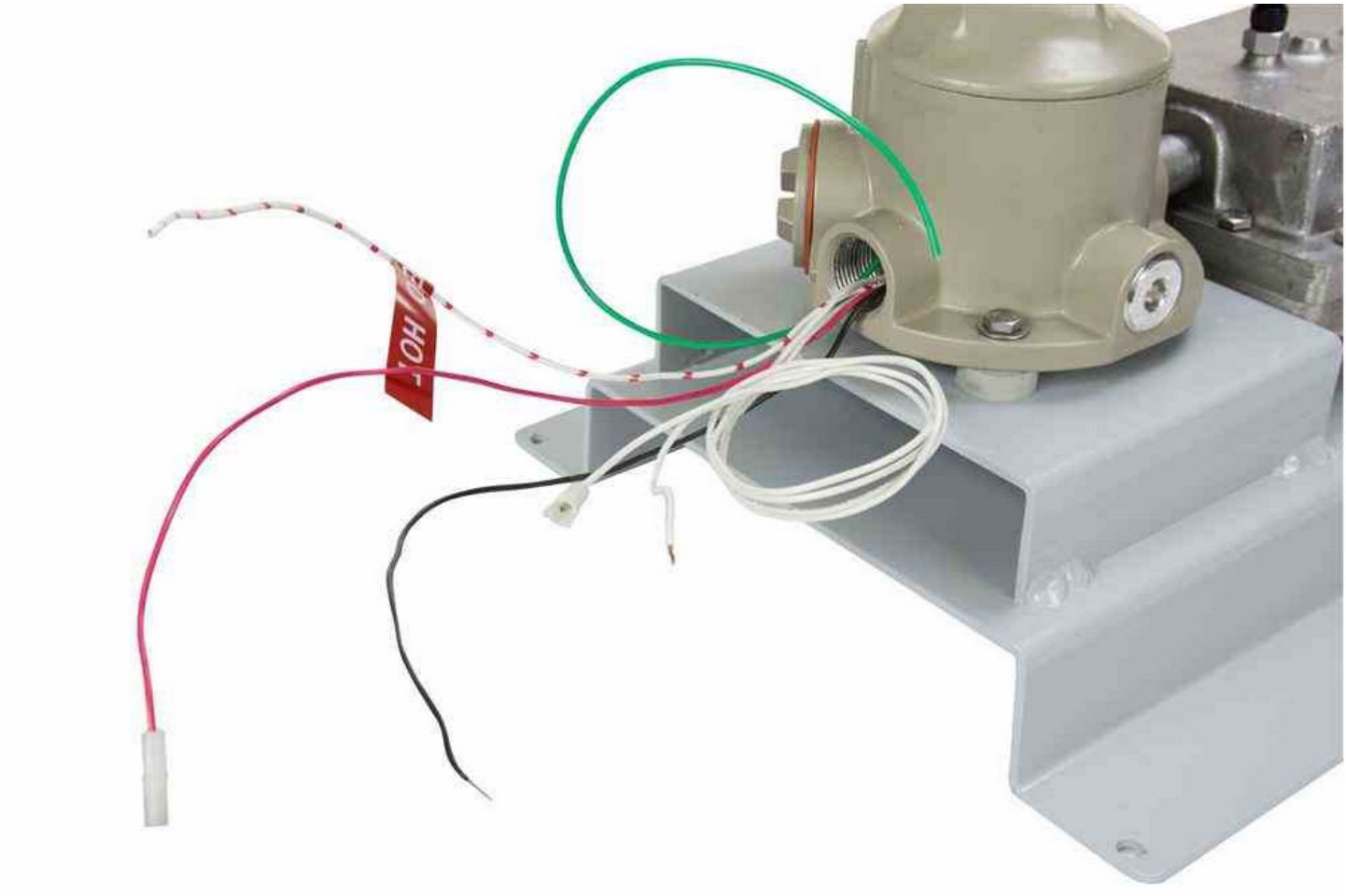


Image: EXP-EMG-25W-2L wall mount bracket for the led emergency backup light fixture

**Warranty:** 36 Months.

**Export Control Classification Number (ECCN):** EAR99

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Links (Click on the below items to view):

- **MSDS (Material Safety Data Sheet**( https://www.larsonelectronics.com/images/product/Msds/146280.PDF )
- **Operations Manual**( https://www.larsonelectronics.com/images/product/Manual/146280.PDF )
- **SpecSheetSpanish**( https://www.larsonelectronics.com/images/product/SpecSheetSpanish/146280.PDF )
- **Wiring Diagram**( https://www.larsonelectronics.com/images/product/WiringDiagram/146280.PDF )
- **HigResPic1**( https://www.larsonelectronics.com/images/product/HigResPic1/146280.JPG )
- **HigResPic2**( https://www.larsonelectronics.com/images/product/HigResPic2/146280.JPG )
- **HigResPic3**( https://www.larsonelectronics.com/images/product/HigResPic3/146280.JPG )
- **HigResPic4**( https://www.larsonelectronics.com/images/product/HigResPic4/146280.JPG )
- **HigResPic5**( https://www.larsonelectronics.com/images/product/HigResPic5/146280.JPG )
- **HigResPic6**( https://www.larsonelectronics.com/images/product/HigResPic6/146280.JPG )
- **HigResPic7**( https://www.larsonelectronics.com/images/product/HigResPic7/146280.JPG )
- **HigResPic8**( https://www.larsonelectronics.com/images/product/HigResPic8/146280.JPG )
- **HigResPic9**( https://www.larsonelectronics.com/images/product/HigResPic9/146280.JPG )
- **HigResPic10**( https://www.larsonelectronics.com/images/product/HigResPic10/146280.JPG )
- **Video1**( https://www.youtube.com/watch?v=4SIcPO0v2eM )
- **ISO 9001 Certification**( http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF )
- **Business Certificate**( https://www.larsonelectronics.com/images/pdfdocs/w9.PDF )
- **Shipping Time Map**( https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf )