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EPL-24-2L-LV-SOL-50-EX.ILS-DNMS

Solar Powered Explosion Proof LED Lighting - 2 Foot 2 Lamp Fixture - C1D1 -Day/Night & Motion Sensor, Inline Switch

Product ID: 285463

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



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.

EPL-24-2L-LV-SOL-50-EX.ILS-DNMS Explosion Proof Solar Powered Light

Solar Panel Specs:

Solar Panel Dimensions: W-11 3/8" L-15 3/4" D-1"
Voltage: 12V DC
Runtime: 10 Hours
Charging Time: 5 Hours

Battery: (2) 8aH sealed lead acid batteries

Explosion Proof Inline Switch: Included with Seal Offs and Sealing Compound (Compound Not Poured)

Cord: 40' Cord Between Solar Panel and Switch, 10' Cord Between Switch to Light

LED Light Ratings/Approvals

Class I Division 1, Groups C and D
Class I Division 2, Group A,B,C,D
Class II Division 1 & 2, Groups E, F and G
NRTL Certified to UL 844
NRTL Certified to UL 1598 Marine Type
NRTL Certified to UL 595 Outdoor Marine Type (Saltwater)
NRTL Certified to UL Certified- U.S./Canadian Safety Standards

Lamp Specs:

Listing: NRTL Listed for United States and Canada

Lamp Technology: LED

Lamp Dimensions: W-11.25" L-27.5" H-8.5 "

Weight: -

Voltage: 12V DC

Total Watts: 28W

Total Lumens: 3,500 lms

Luminous Efficacy: -

Lamp Life: 50,000+ Hours

Color Temp: 5300K

Color Rendering Index: -

Lamp Type: -

Lamp Base: -

Replacement Lamp: -

Beam Angle: 150°

Lighting Configuration: Flood Pattern

Sensor Type: Day/Night Motion (Mounted on Solar Panel)

Sensor Override: On/Off Switch

Amps: -

Operating Temp: -40°C to +65°C

Operating Temp Rating: -

Housing Material: Non-sparking

Housing Finish: -

Lens Material: -

Gasket Material: -

Mounting: Bracket Standard - Pendant Optional

Wiring: 50' SOOW Cable

Wiring Hub: 1/2" NPT

Special Orders - Special Requirements
Contact us for special requirements

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Made in the USA

The Larson Electronics EPL-24-2L-LV-SOL-50-EX.ILS-DNMS Explosion Proof Solar Powered LED Light Fixture is Class I, Division 1 and Class II, Division 1 rated, serving as an ideal lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. The EPL-24-2L-LV-SOL-50-EX.ILS-DNMS features a day/night sensor and a motion sensor for further versatility and an explosion proof inline switch for overriding the sensor. The solar panel must be installed outside of the hazardous location.

This 2 foot long, 2 LED tube, explosion proof solar light fixture is ideal for use in remote locations requiring powerful yet compact hazardous location lighting that will improve overall illumination levels and light quality while reducing operating costs. This explosion proof LED light is powered by two 8aH sealed lead acid batteries that are recharged by a 30 watt solar panel.

This solar panel is equipped with a day/night sensor and motion sensor. The day/night and motion sensor is programmed to activate the solar panel in the evening and to shut it off during the day while the motion sensor will activate the panel upon detecting motion. An included explosion proof inline on/off switch is available for overriding the day/night motion sensor. The switch features seal offs and sealing compound. The compound is not poured and requires final assembly on the field. There is a 40-foot cord between the solar panel and switch, as well as a 10-foot cord between the switch and light.

The light runs for 10 hours when the battery is fully charged. Charging time for the battery bank is 5 hours when exposed to direct sunlight. Indirect sunlight will extend the charge time. 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 cloudy days, the unit will not recharge as quickly. The lead acid battery pack is contained within the solar panel, not the light.

Click here for dimensional drawings for this explosion proof light.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

The EPL-24-2L-LV-SOL-50-EX.ILS-DNMS is equipped with specially designed LED T-series bulbs which produce 15% more illumination at 8 feet as compared to standard T8 lamps when measured with a light meter. Our LED-T series bulbs are visibly brighter than standard T8s and have consistently surprised many of our customers with their unexpectedly high light output levels. This LED explosion proof fixture is lighter in weight, has a slimmer profile and produces more light than traditional explosion proof fluorescent fixtures. The 2 foot long T17 style LED tube design bulbs included with this unit are rated at 50,000+ hours of service life, which is nearly twice as long as standard T8 bulbs.

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.

We have eliminated the ballast box normally associated with fluorescent fixtures which reduces overall weight, creates a slimmer unit profile, and helps this LED fixture maintain a T-6 temperature rating. The solid state design of the LED lamps give this fixture superior resistance to damage from vibrations and extremes in temperature as well as a lamp service life over twice that of standard T8 bulbs. The 14 watt LED lamps produce more illumination than standard T8 bulbs. The LED bulbs used in this fixture are our new second generation LED T series 14 watt T17 style lamps which produce 15% more light than standard T8 bulbs when measured from eight feet. This fixture is operates on 12V DC for use with the low voltage solar panel. The fixture ships with 50 feet of SOOW cable and custom lengths are available upon request. Please contact us for special requirements.

NOTE: Larson Electronics has further upgraded the options available with this light. We expect the light to be mounted separately from the panel. This means the solar panel can be mounted in direct sunlight (not in the hazardous area) while the light is mounted in a hazardous area workspace. Standard installation for explosion proof lighting, including threaded rigid pipe to the LED light fixture and appropriate seal-offs, etc. are required.

Additional Mounting Options: Unless otherwise specified, our standard, most popular configuration is the bracket end mounting shown above. We also offer a pendant mount for those needing to suspend the fixture away from the ceiling surface (i.e. suspend from pipe or conduit).

Standard Bracket Mounts: Each bracket is cinched to the bracket mounting peg on each side of the light. The angle of the bracket is set by tightening two cap screws on

either side of the bracket. The cap screws act as a set screw. The bracket itself is mounted via a single bolt hole at the top of the bracket. There are two brackets, one on each end of the light. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be removed from the brackets by loosening the cap screws that hold the bracket to the mounting peg. The pictures shown above illustrate the side brackets. The third picture enlarged below also shows the brackets at the both ends of the light.

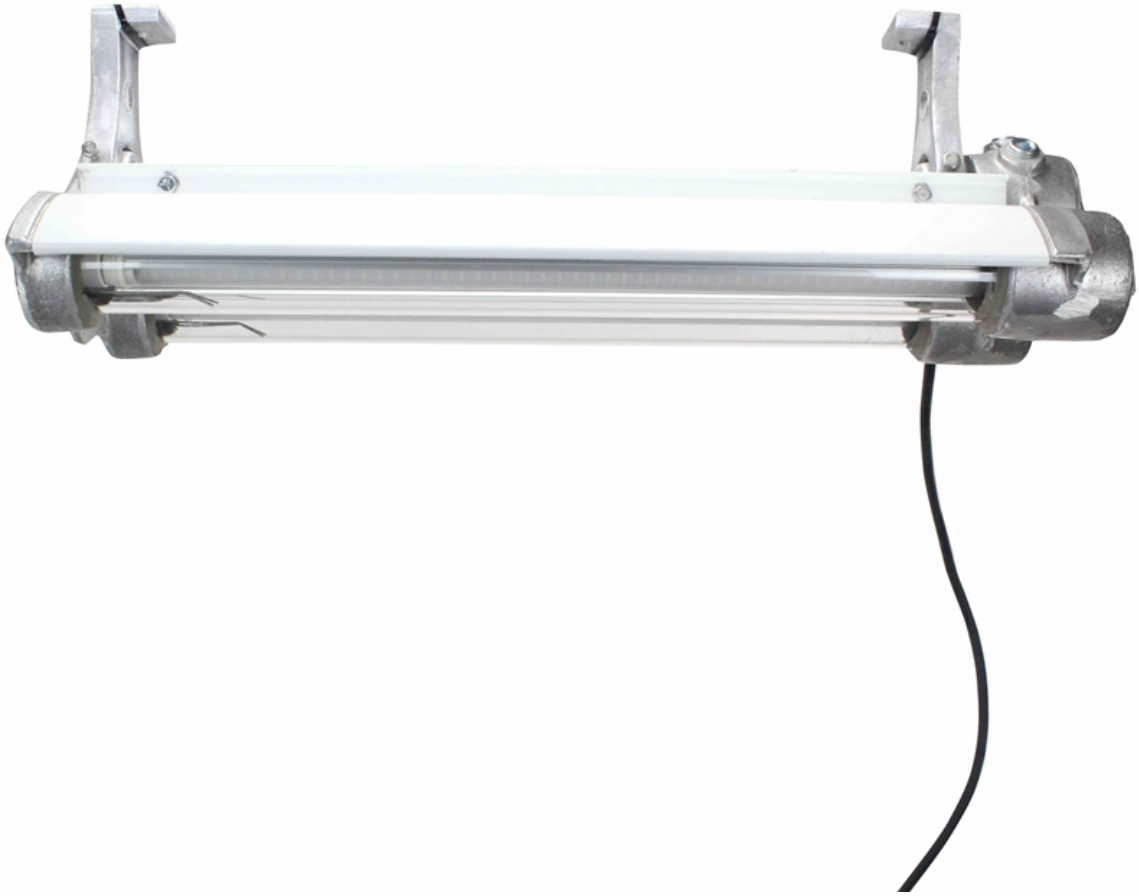
Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste treatment plants, gas processing plants.

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.

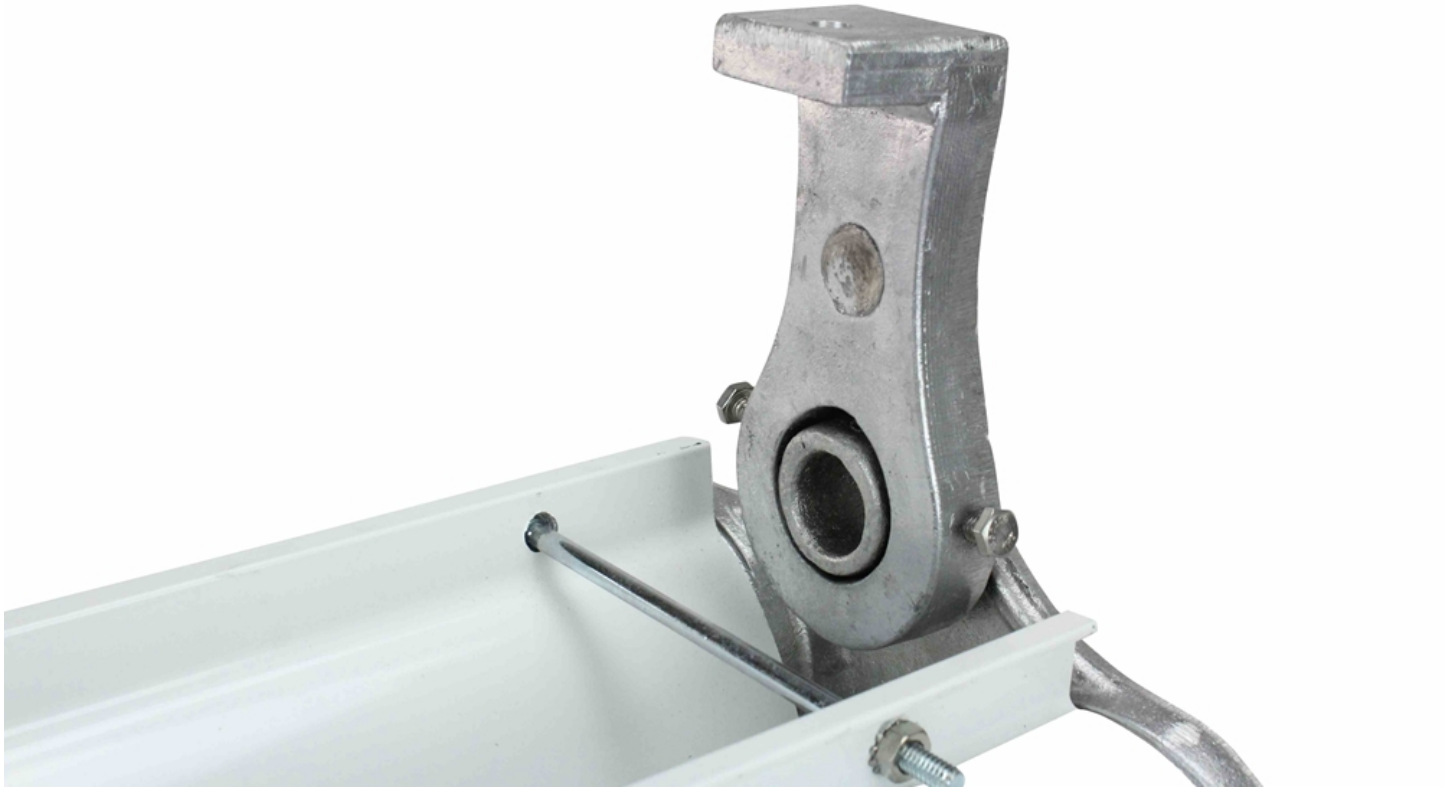
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Frequently Asked Questions (FAQ)







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Product ID: 285463

Export Control Classification Number (ECCN): EAR99

Options:

EPL-24-2L-LV-SOL-50-EX.ILS-DNMS-Mount

Example: EPL-24-2L-LV-SOL-50-EX.ILS-DNMS-SFC

Mount	
SURFACE	-SFC
PENDANT	-PND

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**
- **Certificate 1, Misc**
- **Certificate 2, Misc**
- **Certificate 3, Misc**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**