

Solar Powered Explosion Proof LED Lighting - 2 Foot, 2 Lamp Fixture - Class 1, Div. 1 - 60' Cord EPL-24-2L-LV-SOL-60C



EPL-24-2L-LV-SOL-60C Explosion Proof Solar Powered LED Light Fixture

NRTL Listed for United States & Canada

Lamp Type: Solar LED

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

Solar Panel Dimensions: 11-3/8"L x 15-3/4"D

Weight: 32 lbs

Voltage: 12V DC

Battery: (2) 8aH Sealed Lead Acid Batteries

Runtime: 10 Hours

Charging Time 5 Hours

Total Watts: 28W

Lumens: 3,500

Luminous Efficacy: 125 Lm/W

LED Lamp Life Expectancy: 50,000+ Hours

Color Temp: 5300K

Color Rendering Index: >80

Beam Angle: 150°

Lighting Configuration: Wide Flood Beam

Power Efficiency: >90%

Power Factor: >0.85

Amperage: 2.3A@12V DC

Operating Temp Range: -40°C to +65°C

Operating Temp Rating: T6

Housing Material: Cast Aluminum

Lens Material: Tempered Glass

Mounting: Bracket Standard - Pendant Optional

Wiring: 60' 12/2 SOOW Cord

Warranty: Yes - 5 Years* - 10 Year / 100,000 Lumen Available**

Ratings/Approvals

Class I, Division 1 Groups C & D

Class I Division 2 Groups A, B, C, D

Class II Division 1 & 2 Groups E, F, G

NRTL Certified to UL 844

NRTL Certified to UL 1598 Marine Type

NRTL Certified to UL 595 Outdoor Marine Type
(Saltwater)

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

Made in Texas

The EPL-24-2L-LV-SOL-60C Explosion Proof Solar Power LED light fixture from Larson Electronics is the ideal lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. This powerful yet compact hazardous location light delivers crisp, clean light while reducing operating costs. Charged by the 30 watt solar panel, two 12V AC 8aH sealed lead acid batteries provide constant, reliable power to the 2 tube, 28 watt fixture. The EPL-24-2L-LV-SOL-60C ships with a convenient 60' of 12/2 SOOW cord connecting the solar panel to the

light fixture which allows operators to position the panel where the most ambient light is available.

Light Features: 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. The EPL-24-2L-LV-SOL-60C features our second generation LED T-series 14 watt T17 style lamps which produce 15% more illumination at 8 feet as compared to standard T8 lamps when measured with an Extech 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.

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 gives 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.



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Charged by the 30 watt solar panel, two 12V AC 8aH sealed lead acid batteries provide constant, reliable power to the 2 tube, 28 watt fixture. These batteries are contained within the solar panel, not the light. The EPL-24-2L-LV-SOL-60C ships with a convenient 60' of 12/2 SOOW cord connecting the solar panel to the light fixture which allows operators to position the panel where the most ambient light is available.

The solar panel is equipped with either a day/night sensor and motion sensor or with an on/off switch. 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. The on/off switch will activate and shut off the solar panel according to the operator's preference. Operators can switch between modes with a toggle switch.

The EPL-24-2L-LV-SOL-60C provides 10 hours of continuous runtime when the battery is fully charged. Charging time for the battery bank is 5 hours when exposed to direct sunlight. As with all solar powered equipment, charging time is affected by the amount of available ambient light. Indirect sunlight and low ambient light levels, such as on cloudy days, will extend the charge time.

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. Solid state LED lighting is also safer for the environment as LEDs are 100% recyclable. And recycling simultaneously reduces operating costs by eliminating the need for the expensive special disposal services required with traditional gas burning and arc type lamps.

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.

Power/Wiring: This EPL-24-2L-LV-SOL-60C is powered by two 12V AC 8aH sealed lead acid batteries that are recharged by a 30 watt solar panel. These rechargeable batteries provide a continuous supply of steady, reliable power. The lead acid battery pack is contained within the solar panel, not the light. This fixture ships with 60 feet of 12/2 SOOW cord that connects the light fixture to the solar panel. Custom lengths are available upon request. Please contact us for special requirements.

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

High Quality Features

1. Each unit dialectically tested.
2. Fixture arrives assembled and lamped to reduce installation time and cost. Adjustable mounting brackets enable the operator to choose any mounting angle for the fixture.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy
4. No ballast box. No ballast to replace. We simply run the black wire to one end of the bulb and white wire to the other.
5. Heavy gauge extruded aluminum reflectors with high gloss reflective finish. Resists dents and corrosion.
6. A wrench is used to unscrew the end caps for relamping the fixture, while some competitive models require the end tap and knock off method to loosen the end cap.
7. Explosion proof, impact and heat resistant Pyrex tubes provide lamp protection.

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.

Options:

EPL-24-2L-LV-SOL-60C-Fixture Mount-Panel Function

Example: EPL-24-2L-LV-SOL-60C-SFC-DAYNIGHT

Fixture Mount	
SURFACE	-SFC
PENDANT	-PND

Panel Function	
DAY-NIGHT	-DAYNIGHT
MOTION ONLY	-MOTIONONLY
ON-OFF ONLY	-ONOFF
NO CONTROLS	-NONE

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