

Solar Powered Explosion Proof LED Lighting - C1D1 - 2ft, Dual Lamp Fixture - Day/Night Sensor EPL-24-2L-LV-SOL



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

NRTL Listed for United States & Canada

Lamp Type: Solar Powered LED Lamp

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

Lamp Dimensions: 8.5" x 27.5" x 11.25"

Voltage: 12V DC

Amperage: 2.3A @ 12V DC

Battery: (4) 8aH Sealed Lead Acid Batteries

Charging Time: 5 Hours

Runtime: 7 Hours

Operation: Day/Night Detection, Motion, On/Off

Lamp Configuration: (2) 2-foot LED Lamps

Total Watts: 28W (14W per Lamp)

Lumens: 3,500

Luminous Efficacy: 125 Lm/W

Color Temp: 5300K

Color Rendering Index: >80

Beam Angle: 150°

Lighting Configuration: Wide Flood Beam

Power Efficiency: 90%

Power Factor: >0.85

LED Lamp Life Expectancy: 50,000+ Hours

Operating Temp Range: -40°C to +65°C

Operating Temp Rating: T6

Housing Material: Cast Aluminum

Lens Material: Tempered Glass

Wiring: 1/2" NPT Hub - 30' 16/3 SOOW Cord

Mounting: Bracket Standard - Pendant Optional

Weight: 32 lbs

Ratings/Approvals

Class I, Div 1, Groups C & D

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

Class II, Div 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)

Day/Night Sensor

On/Off Switch Activation

Special Orders- Requirements

Contact us for special requirements

Phone: 1-214-616-6180

Toll Free: 1-800-369-6671

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

Made in Texas

The EPL-24-2L-LV-SOL Explosion Proof Solar Power LED light fixture from Larson Electronics is an ideal lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. Charged by a 30-watt solar panel, four 8aH sealed lead acid batteries provide constant, reliable power to the two 28-watt LED fixtures. This unit ships with 30' of 16/3 SOOW cord, connecting the solar panel to the light fixture which allows operators to position the

panel where the most ambient light is available. When ordering the solar powered luminary, please select the preferred mounting option and light handling mechanism.

This explosion proof fixture features 2-foot long LED tubes in a dual, side-by-side lighting configuration. Powering the LED lamps are four, 8aH sealed lead acid batteries. These power packs are contained within the solar panel (not the light) and offer up to 7 hours of continuous operation on a full charge with a 5-hour charge time. To ensure consistent operation during nighttime conditions, a built-in day/night feature, coupled with an on/off switch is available. This fixture ships with 30 feet of 16/3 SOOW cord that connects the light fixture to the solar panel. 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 day/night sensor is programmed to activate the solar panel in the evening and shut off during the day, while the motion sensor will activate the panel upon detecting motion. An on/off switch activates/shuts off the solar panel according to the operator's preferences. The operator can switch between modes with a toggle switch.

Durability: The EPL-24-2L-LV-SOL features our second generation LED T-series 14-watt, T17 style lamps which produce 15% more illumination at 8 feet, 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 T6 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.

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.

Mounting: 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 (suspended from pipe or conduit). For 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.

Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste treatment plants and remote hazardous locations compatible with the unit.

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.

Larson Electronics offers a Class I, Division 2 rated panel solution for an additional cost. This incorporates a class rated panel, charge controller, and sealed battery solution. This allows the panel to be installed within C1D2 environments. No C1D1 rated solar panels exist, so the panel must be located outside the C1D1 environment in either panel solution offered.

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.

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-Mount-Light Handling

Example: EPL-24-2L-LV-SOL-SFC-SFC

Mount	
SURFACE	-SFC
PENDANT	-PND

Light Handling	
DAY-NIGHT	-SFC
MOTION ONLY	-PND

Links (Click on the below items to view):

- [Addpic1large](#)
- [Addpic2large](#)
- [Addpic3large](#)
- [Addpic4large](#)
- [large](#)
- [Manual](#)
- [medium](#)
- [SpecSheet](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [Video1](#)