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EPL-PT-100LED-RT-LV-SOL-C1D2

100W Explosion Proof Solar-powered LED Fixture - 24V - Slip Fit Yoke Mount - 40' 12/2 SOOW Cord

Product ID: 148281

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-PT-100LED-RT-LV-SOL-C1D2 Explosion Proof Solar Powered LED Light Fixture

Unit Type: Solar LED System
Lamp Dimensions: 16" x 22" x 18"
Solar Panel Dimensions: 62.5" x 31.1" x 2"
Weight: 65 lbs

Battery/Solar Panel Specs:
Battery Type: Valve Regulated Lead Acid
Capacity: (2) 250aH 8D 12V
Panel Watts: 190
Voltage at Pmax (Vmpp): 38V
Current at Pmax (Impp): 5A
Module Efficiency: 15.2%
Solar Cells: 72 Crystalline 5” Silicon Cells
Materials: Anodized Aluminum Housing w/ High Transmission Glass Lens
Mount: Pole Mount

LED Lamp Specs:
Lamp Type: Explosion Proof LED
Voltage: 24V DC
Total Watts: 100W
Lumens: 11,667

Ratings/Approvals

Listed for the US and Canada
Class I, Divisions 1 & 2 Groups C,D
Class II, Divisions 1 & 2, Groups E,F,G
Class III, Divisions 1 & 2

Certified to UL 844 Ed. 13

Certified to UL 1598
Certified to C22.2 No. 137 Rev 2009
Certified to C22.2 No. 250.0
Certified to C22.2 No. 30-M-1986 Rev 2012
T5 Temperature Rating
Paint Spray Booth Approved
IEC 60529 Tested
IP67 Rated Waterproof
Multiple Driver Banks
80% Lumen Retention after 60,000 Hours

Factory Sealed Light Fixture

Recommended 10`-30` Mounting Height
Adjustable Swiveling Pole Top Mount
NEMA 4X Enclosure
IP65 Solar Panels

Luminous Efficacy: 116.67 Lm/W
LED Lamp Life Expectancy: 50,000+ Hours
Color Temp: 5,000K
Color Rendering Index: 75
Beam Angle: 60° or 125°
Lighting Configuration: Flood Beam
Power Efficiency: >95%
Power Factor: 0.992
Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Housing Material: Copper Free Cast Aluminum
Lens Material: Hardened Borosilicate Glass
Mount Material: Non-Sparking Aluminum w/ SS Hardware
Gasket Material: Silicone
Mounting: Slip Fit Yoke Mount w/ Adjustable Bracket
Yoke Diameter: 1.5", 2", 2-1/4", 2-1/2", 2-3/4", 3" Slip Fit
Wiring: 40` 12/2 SOOW Cord (20` 12/2 SOOW Cord Between Solar Panels and Battery Enclosure, 20` 12/2 SOOW Cord Between Battery Enclosure and LED Lamp)

Special Orders - Special Requirements
Contact us for special requirements
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Made in Texas

The EPL-PT-100LED-RT-LV-SOL-C1D2 Explosion Proof Solar-powered LED Fixture from Larson Electronics is ideal for illuminating hazardous locations and remote industrial facilities. This lighting system consists of an explosion proof, 100-watt LED lamp, 190-watt solar panels and an external Class I, Division 2 enclosure, which houses two, 250aH batteries and controls. A slip fit yoke mount allows operators to adjust the positioning of the light directly over the target area.

The EPL-PT-100LED-RT-LV-SOL-C1D2 is a sustainable lighting solution for illumination in hazardous locations. An explosion proof, 100-watt LED lamp provides 11,667 lumens of white light with a color temperature rating of 5,000K. Featuring a flood beam pattern, the low voltage unit can accommodate wide spaces. Powering the LED luminary is a 190-watt solar panel and two, 250aH batteries. The explosion proof light is constructed of cast aluminum with a hardened borosilicate glass lens.

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.

Battery/Solar Panels: Charged by the 190-watt rated solar panels, two 12V 250aH 8D batteries provide constant, reliable power to the LED fixture. 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.

The valve regulated lead acid batteries and controls are contained within a heavy-duty remote enclosure that is powder coated aluminum for corrosion resistance and includes pad-lockable hasps. The Class I, Division 2 enclosure is equipped with circuit breakers for short circuit protection.

Mounting: The explosion proof light features an adjustable swivel bracket constructed of 3/8" aluminum that allows over 270° of adjustment and is attached to a slip fit yoke mount for easy installation. The slip fit yoke caters to customer`s specs, enabling operators to mount this explosion proof LED light to their specific pole size. For example, selecting a 2" OD mount means that the yoke mount will fit onto pipes or bull horns with a 2" OD.
During installation, operators may mount the solar panels away from the LED lamp on a pole, allowing optimized positioning for direct exposure to sunlight (not in the hazardous area). Standard installation for explosion proof lighting, including threaded rigid pipe to the LED light fixture and appropriate seal-offs, etc. are required.
Wiring: The EPL-PT-100LED-RT-LV-SOL-C1D2 ships with 40 feet of 12/2 SOOW cord, consisting of 20` 12/2 SOOW cord between the solar panels and battery enclosure, and 20` 12/2 SOOW cord between the battery enclosure and the explosion proof LED lamp. Custom lengths are available upon request. Please contact us for special requirements.
Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste treatment plants, agricultural sites, grain storage facilities and more.
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.

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Frequently Asked Questions (FAQ)

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Product ID: 148281

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-PT-100LED-RT-LV-SOL-C1D2-Beam Angle-Mount

Example: EPL-PT-100LED-RT-LV-SOL-C1D2-60B-1.5in

Beam Angle	
60°	-60B
125°	-125B

Mount	
1 1/2	-1.5in
2	-2in
2 1/4	-2.25in
2 1/2	-2.5in
2 3/4	-2.75in
3	-3in

Links (Click on the below items to view):

- **HigResPic1**
- **Video1**
- **Video2**
- **Video3**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**