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EXPLED-SOL12-PT-40AH

Solar Power LED Explosion Proof Light - C1D1 - Strobe/Steady Burn - 30' 12/2 SOOW - Slip Fit Mount - 24 Hour Runtime

Product ID: 280743



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.

EXPLED-SOL12-PT-40AH Solar Power LED Explosion Proof Light - C1D1 - Strobe/Steady Burn - 30' 12/2 SOOW - Slip Fit Mount
Operation: Automatic
Solar Panel Dimensions: 15 3/4"-L x 11 3/8"-W x 1"-D
Lamp Dimensions: 7.44"-Diameter, 11.1" Height
Panel Watts: 30
Lamp Watts: 12
Charging Time: 5 Hours
Lumens:1,600
Runtime: 24 Hours
Lamp Mounting: Slip Fit Yoke Mount w/ Adjustable Bracket
Panel Mounting: Flat Surface / Round/Square Pole
Battery: (1) 40aH Lithium Iron Phosphate Battery
Wiring: 30' of 12/2 SOOW Cord, Custom lengths Available on request.
Lamp Temp Rating: T6 - All Voltage and Temperature Ranges
Lamp Wiring Hub: 3/4" Threaded

UL Ratings For Light

Class I Div 1 - Groups C & D
Class I Div 2 - Groups A, B, C & D
Class II Division 2 - Groups F & G
NEMA 4X
T6 Temperature Rating
-55°C to 85°C Operating Temp
Suitable for Marine Environments

Special Orders - Special Requirements

Contact us for special requirements
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The EXPLED-SOL12-PT-40AH from Larson Electronics is a Solar Powered Explosion Proof LED Light that is an ideal lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. This unit is equipped with a 40aH lithium iron phospate battery and features a pole top slip fit mount with an adjustable swivel bracket. When ordering this solar powered LED light, please select the pole size.

This explosion proof LED light is powered by two 8aH sealed lead acid battery that is

recharged by a 30 watt solar panel. Light output comes from a 12 watt LED lamp that produces 1,600 lumens. When the battery is fully charged, the light can run for 24 hours before it needs to be recharged. For example, it could run on a single full charge for 2 days at 12 hours a day, 3 days at 8 hours a day, 4 days for 6 hours a day, and so on. Charging time for the lead acid battery is 5 hours when exposed to direct sunlight. Indirect sunlight will extend the charge time.

The EXPLED-SOL12-PT-40AH pole top slip fit mount explosion proof light features an adjustable swivel bracket constructed of 3/8" aluminum that allows 270° of adjustment and is attached to a slip fit yoke for easy installation. The slip fit yoke is built to customer`s specs, enabling operators to mount this explosion proof LED light to their specific pole size.

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.

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. This solar panel can be equipped with either a day/night sensor and a motion sensor or with an on/off switch. The day/night 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 preferences. The operator can switch between modes with a toggle switch. The battery pack is contained within the solar panel, not the light. The illumination produced by the explosion proof LED light will cover an area approximately 55`L x 55`W when mounted 12 feet from the ground.

Mounting



Round Pole



Square Pole



Surface

This hazardous area light (Lamp Fixture only) is NRTL Listed Class I Division 1 Groups C and D, Class I Division 2 Groups A, B, C, D, and Class II Division 2 Groups F and G. These lights are also compliant with NEMA 4X standards and marine-rated for use in salt water environments. The high power LED cluster is protected by an internal cooling fin array that reduces heat build for longer LED life and higher light output consistency. An internal DIP switch allows operators to choose from steady on, single flash or double flash modes.

This explosion proof LED light contains a LED bulb that can serve to illuminate small works areas or draw attention to towers and other structures from a distance. This explosion proof LED light can be configured for steady burn or strobing applications. The housing on this LED light is constructed to NEMA 4X standards and is marine rated for salt water environments. The cast aluminum housing is made of high strength copper-free aluminum alloy with a baked powder epoxy finish. The fixture ships with 30 feet of 12/2 SOOW cable and custom lengths are available upon request. Please contact us for special requirements.

Mounting: The EXPLED-SOL12-PT-40AH pole top slip fit mount 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 for easy installation. The slip fit yoke is built 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.
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.




ON
OFF


ON
OFF


USE 75°C MIN. SUPPLY WIRE

Frequently Asked Questions (FAQ)