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## EXPLED-SOL12

# Solar Power LED Explosion Proof Light - C1D1 - 30' 12/2 SOOW Cord - Day/Night Sensor - 12hr Runtime

**Product ID: 48773**

**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.**

**EXPLED-SOL12 Solar Powered Explosion Proof Light**
**Unit Type: Solar Powered LED Light**
**Solar Panel Dimensions: 14.3" x 27.89" x 3.19"**
**Lamp Dimensions:** 7.44" x 11.1"
**Panel Watts: 30**
**Battery: (4) 8aH Sealed Lead Acid Batteries**
**Charging Time: 5 Hours**
**Runtime: 12 Hours**
**Operation: Day/Night Detection, Motion, On/Off**
**Ambient Temp: -45°C to +55°C**
**Panel Mounting: Flat Surface / Round/Square Pole**
**Lamp Watts: 12**
**Lamp Lumens: 1,260**
**Lamp Temp Rating: T6 - All Voltage and Temperature Ranges**
**Housing Material: Copper-free Aluminum Alloy**
**Housing Finish: Baked Powder Epoxy Finish**
**Wiring:** 30 feet of 12/2 SOOW Cord, Custom Lengths Available on Request
**Lamp Wiring Hub: 3/4" Threaded**
**Lamp Mount:** Wall, Ceiling, Pendant, or 25° Stanchion
**Weight:** 30 lbs

**Ratings/Approvals**
Class I, Div 1, Groups C, D
Class I, Div 2, Groups A, B, C, D
Class II, Div 2, Groups F, G
NEMA 4X
Suitable for Marine Environments
Day/Night Sensor
On/Off Switch Activation

**Special Orders - Special Requirements**
Contact us for special requirements

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**The EXPLED-SOL12 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 offers 12 hours of continuous operation per charge and a built-in day/night sensor with on/off switch for efficient power usage. When ordering the solar powered luminary, please select the preferred LED color, mounting option and strobing pattern.**

This explosion proof LED light is powered by two 8aH sealed lead acid batteries that are recharged by a 30-watt solar panel. Light output comes from a 12-watt LED lamp that produces 1,260 lumens. When fully charged, this luminary is capable of operating continuously for 12 hours. To ensure consistent operation during nighttime conditions, a built-in day/night feature, coupled with an on/off switch is available. The battery pack in the EXPLED-SOL12 is contained within the solar panel, not the light. 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.

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: This hazardous area light (lamp fixture only) is UL Listed for Class I Division 1 Groups C and D; Class I Division 2 Groups A, B, C and 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 up 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.**

The housing is made of high strength copper-free aluminum alloy with a baked powder epoxy finish and is shown with a wall mount configuration, but can be configured with a pendant or ceiling mount as well. The fixture ships with 30 feet of 12/2 SOOW cable and custom lengths are available upon request. Please contact us for special requirements.

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**Mounting**




**Round Pole**




**Square Pole**




**Surface**

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**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.

**Applications:** Chemical plants, oil refineries, wastewater facilities, solvent storage

areas, food processing plants, emergency lighting, notification lighting and remote hazardous locations compatible with the unit.

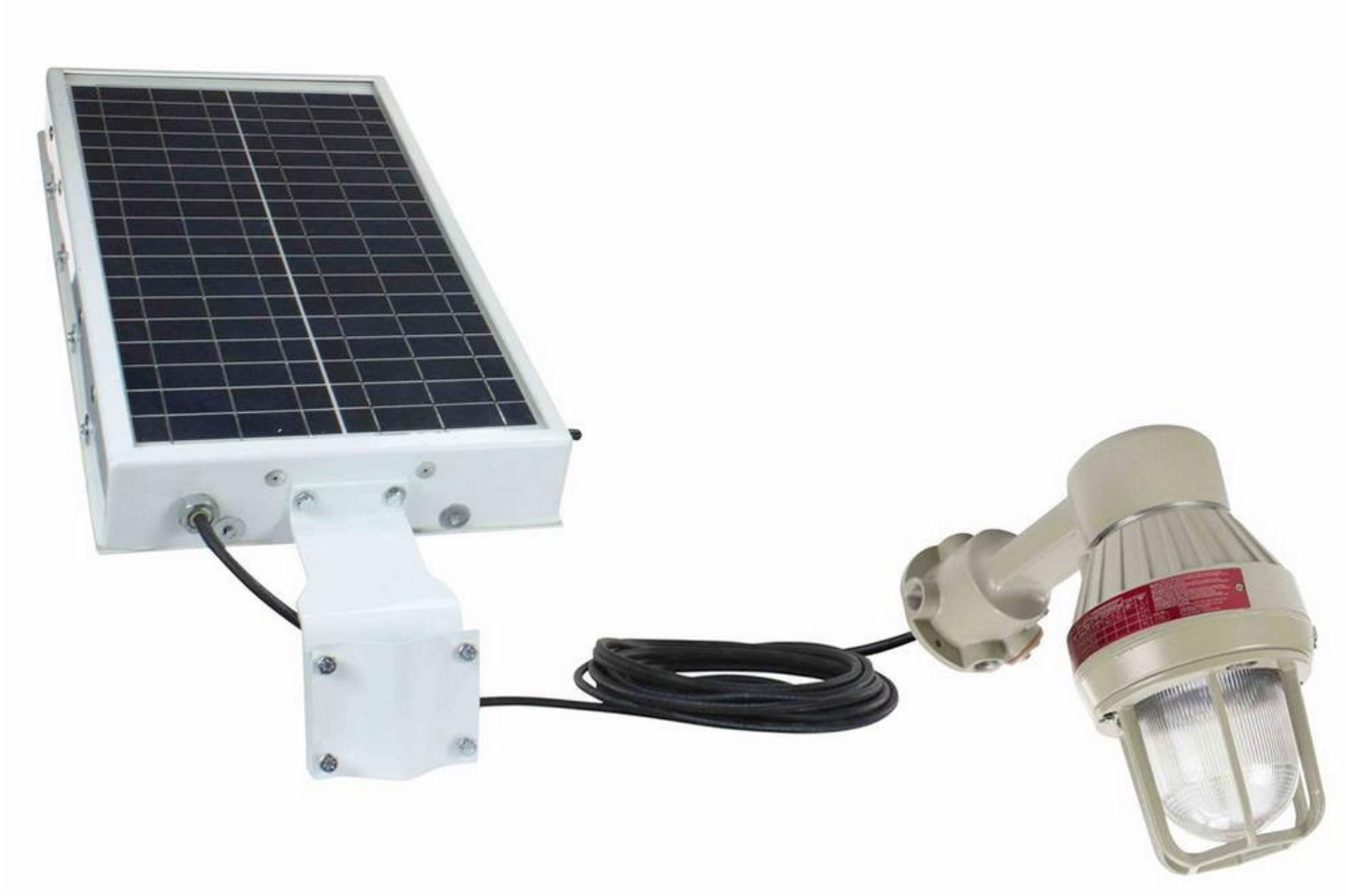
**NOTE:** Larson Electronics has further upgraded the options available with this light. We expect the light to be mounted separately from the panel. This means the solar panel can be mounted in direct sunlight (not in the hazardous area) while the light is mounted in a hazardous area workspace. Standard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

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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**EXPLED-SOL12**

**Product ID: 48773**

**Harmonized System (HS) Code:** 9405.41.84.10

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**EXPLED-SOL12-LED Color-Mount-Pattern**

**Example: EXPLED-SOL12-RED-WALL-SF**

| LED Color | |
|---|---|
| RED | -RED |
| AMBER | -AMB |
| WHITE | -WHT |
| BLUE | -BLU |
| GREEN | -GRN |

| Mount | |
|---|---|
| WALL | -WALL |
| CEILING | -CLG |
| PENDANT | -PND |
| 25° STANCHION | -STNM |

| Pattern | |
|---|---|
| SINGLE FLASH | -SF |
| DOUBLE FLASH | -DF |
| STEADY BURN | -STB |

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
- Dimensional Drawing 2D
- MSDS (Material Safety Data Sheet
- Operations Manual
- STEP File (3D CAD Model)
- USA NEC Certificate (Commonly referred to as UL Certificate)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map