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EXPLED-SOL12-EXPSG-LE1-30C

Explosion Proof Solar Powered Sight Glass Mount LED Light - Class I, II, III - 30' 12/2 SOOW Cord

Product ID: 267444

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-EXPSG-LE1-30C Explosion Proof Sight Glass LED Light

Solar Panel Specs

Operation: Day/Night, On/Off, 24/7 or Motion
Solar Panel Dimensions: W-11 3/8" L-15 3/4" D-1"
Panel Watts: 30W
Battery Type: (1) 10aH Lithium-ion
Charging Time: 5 Hours
Runtime: 12 Hours
Panel Mounting: Flat Surface, Round/Square Pole
Wiring: 30' 12/2 SOOW Cord between Solar Panel and LED Light, Custom Lengths Available Upon Request

LED Light Ratings/Approvals

Class I, Divisions 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Divisions 1 & 2, Groups E, F, G
Class III, Divisions 1 & 2
NEMA 3R, 4, 7 (B, C, D), 9 (E, F, G)
NRTL Listed to UL 508A
NRTL Listed to UL 1203
NRTL Listed to CSA C22.2 No 14, 25, 30

Lamp Specs

Listing: NRTL Listed for United States, Canada, Europe, Asia

Lamp Technology: LED

Dimensions: 6.75" x 6.125" x 4.875"

Weight: 35 lbs

Watts: 12W

Voltage: -

Lumens: 1,320 lms

Luminous Efficacy: 110 Lm/W

LED Life Expectancy: 50,000 hours

LED Light Color: 6000K - White
CRI: -
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
Spot Beam: 800`L x 140`W
Flood Beam: 300`L x 225`W
Lighting Configuration: 10° Spot or 40° Flood
Efficiency: -
Power Factor: -
Amps: -

Ambient Operating Temp Range: -60°C to +70°C

Housing Material: Aluminum

Lens Material: 3/8" Thick Tempered Glass

Mounting: Adjustable Sight Glass Mount

Special Orders - Special Requirements
Contact us for special requirements

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The Larson Electronics EXPLED-SOL12-EXPSG-LE1-30C Explosion Proof Solar Powered Sight Glass Mount LED Light is an ideal lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. This solid-state light offers 1,320 lumens of illumination with a 6000K color temperature rating. Equipped with a 30-watt solar panel, this unit contains a 30` 12/2 SOOW cord between the LED light and panel. The panel must be installed outside of the hazardous location area.
The EXPLED-SOL12-EXPSG-LE1-30C produces 1,320 lumens of high-intensity LED light for illumination within hazardous areas and potentially explosive work environments. The solar-powered LED light is available in two lighting configurations: spot or flood. The spot configuration features a 10° beam that measures 800`L and 140`W. The flood configuration throws a 40° beam that measures 300`L and 225`W. The 30-watt solar panel can be equipped with either a dusk to dawn day/night sensor, a motion sensor, an on/off switch or configured to run 24/7. The day/night sensor is programmed to activate the solar panel in the evening and to shut it off during the day. 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.
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.
Durability: The explosion proof LED light from Larson Electronics is rated NEMA Type 3, 4, 4X and designed to withstand the rigors of demanding environmental and operating conditions while remaining lightweight and easy to use. These units are waterproof to 3 meter and resist ingress of dust, dirt and humidity. The housings are formed from aluminum and the lenses are thick tempered glass. The LEDs offer inherent LED resistance to shocks and vibrations.

Mounting



Round Pole



Square Pole



Surface

Solar Panel/Battery: The light runs for 12 hours when the battery is fully charged. Charging time for the single 10aH lithium-ion battery is 5 hours when exposed to direct sunlight. Indirect sunlight will extend the charge time. 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 battery pack is contained within the solar panel, not the light.
Wiring: The fixture ships with 30 feet of 12/2 SOOW cable between the solar panel and explosion proof light. Custom lengths are available upon request. Please contact us for special requirements.
Mounting: Equipped with adjustable legs at both sides of the unit, the LED light is compatible with several mounting requirements and configurations. For sight glass/surface mounting, the device can be attached directly using a nut, flanged adapter collar or hinged bracket. Bracket components allow robust, angled positioning of the light head. The ATEX rated fixture supports compatibility with circular sight glass fittings (DIN 28120, DIN 28121), weld-neck type MV sight glass fittings, ANSI flange types and visual flow indicators.
For the solar panel, flat surface or round/square pole mounting, such as on utility poles or similar structures, is possible. The panel must be installed outside of the hazardous locations area.
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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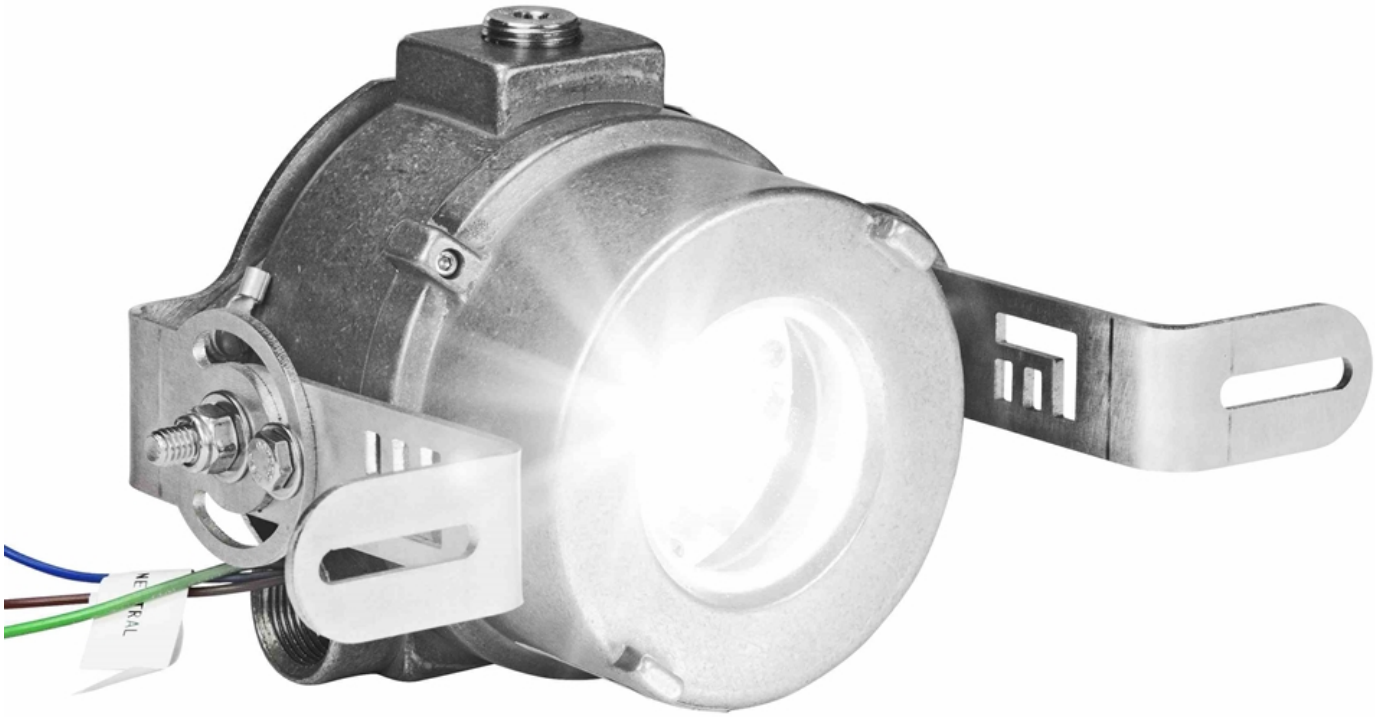
Frequently Asked Questions (FAQ)

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EXPLED-SOL12-EXPSG-LE1-30C

Product ID: 267444

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EXPLED-SOL12-EXPSG-LE1-30C-Beam Pattern-Operation

Example: EXPLED-SOL12-EXPSG-LE1-30C-SP-Day.Night

Beam Pattern	
SPOT	-SP
FLOOD	-FL

Operation	
DAY/NIGHT	-Day.Night
ON/OFF	-On.Off
24/7	-24.7
MOTION	-MOTION

Links (Click on the below items to view):

- **Wiring Diagram**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**