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**EPL-MJ-25W-SOL12-30C**

# 25W Solar Explosion Proof LED Light - C1D1 Light, 30' 12/2 SOOW Cord - Day/Night Sensor

**Product ID: 286572**

**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-MJ-25W-SOL12-30C Solar Powered Explosion Proof Light**

**Solar Panel Specs**

**Panel Dimensions: 14.3" x 27.89" x 3.19"**
**Panel Watts: 30W**
**Battery: (4) 8aH Sealed Lead Acid Batteries**
**Charging Time: 5 Hours**
**Runtime: -**
**Operation: Day/Night Detection, Motion, On/Off**
**Panel Mounting: Flat Surface / Round/Square Pole**
**Wiring: 30 feet of 12/2 SOOW Cord, Custom Lengths Available on Request**

**LED Light Specs**

**Listing: NRTL Listed to United States, Canada**

**Lamp Technology: LED**
**Lamp Dimensions: 10.5"-L x 6.22"-W x 13.5"-H**
**Lamp Weight: 10 lbs**
**Voltage: 11-25V AC/DC (Nominal 12V or 24V AC or DC)**
**Total Watts: 25W**
**Total Lumens: 3,750 lms**
**Luminous Efficacy: 150 Lm/w**
**Lamp Life: 75,000+ Hours**
**LED Color: Red, Green, Blue, Amber, Purple, White 5000K, White 4500K, White 4000K, White 3500K or White 3000K**
**Color Rendering Index: >80 CRI**
**Lamp Type:** Integrated LED
**Lamp Base:** N/A

**EXP LED Light Ratings/Approvals**

Class I, Divisions 1 & 2, Groups C and D
Class II, Divisions 1 & 2, Groups E, F and G
Class III, Divisions 1 & 2
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to C22.2 No. 137 Rev 2009
NRTL Certified to C22.2 No. 250.0
NRTL Certified to C22.2 No. 30-M-1986 Rev 2012
IEC 60529 Tested
IP67 Rated Waterproof
LEL Approved
Replacement for Metal Halide, HPS, Mercury Vapor, Halogen, CFL and Incandescent Lamps
Pyramid Light Distribution
Field Serviceable
Solar Panel to be Installed Outside of Hazardous Location
Day/Night Sensor Mounted to the Solar Panel

**Replacement Lamp:** -
**Beam Angle: 360°**
**Lighting Configuration: Flood Pattern, Steady Burn**
**NEMA Type (Lighting): 7H x 7V**
**IES Classification: Type VS**
**Longitudinal Classification: Very Short**
**Cutoff Classification: Non-Cutoff**
**CIE Type: Semi-Direct**
**BUG Rating: B1-U4-G2**
**Power Efficiency: >95%**
**Power Factor: 0.959**
**Amps: 2.08A @ 12V, 1.04A @ 24V**
**Ambient Operating Temp Range: -50°C to +65°C**
**Operating Temp Rating: T5**
**Housing Material: Copper Free Cast Aluminum (non sparking)**
**Housing Finish: Epoxy Powder Coated - Gray**
**Lens Material: Hardened Borosilicate Glass**
**Gasket Material: Silicone**
**Mounting: Wall Mount - Other Mounts Available**

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

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**The EPL-MJ-25W-SOL12-30C 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 has a built-in day/night sensor on the panel and on/off switch for efficient power usage. When ordering the solar powered luminary, please select the preferred LED color. The solar panel must be installed outside of the hazardous location.**
The EPL-MJ-25W-SOL12-30C solar 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 Class I, Division 1 & 2 and Class II, Division 1 & 2 explosion proof light that is designed for combustible environments. This 25-watt mason jar style fixture offers 3,750 lumens of high quality light. Color options for the LED light includes: red, green, blue, amber, purple, white 5000K, white 4500K, white 4000K, white 3500K or white 3000K. This compact fixture is a suitable replacement for metal halide, high pressure sodium, mercury vapor, halogen, CFL and incandescent lights. The LED unit features a pyramid configuration to ensure complete light distribution that closely represents light output of traditional bulbs (unlike other LED lights that utilize a flat board causing light to be pushed directly downwards). This solution promotes vertical lighting and reduces the limitations associated with directional lighting. We can add a metal reflector at an additional cost.
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. Located on the solar panel, 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.

**Mounting**



**Round Pole**



**Square Pole**



**Surface**

**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.

**LED Drivers:** Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of an electronic LED driver. This internal driver provides the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the electronic driver allows the light to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights.

**Field Serviceability:** This explosion proof LED light fixture is field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with the EPL-MJ series with field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

**Wiring:** The fixture ships with 30 feet of 12/2 SOOW cable and custom lengths are available upon request. Please contact us for special requirements.

**Mount:** This explosion proof mason jar style LED light fixture comes standard with wall mounting features. Several mounting options including ceiling, pendant, angled wall, angled stanchion and top hat/pan adapter mounts for replacing existing light fixtures can be ordered separately.

**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)







**EPL-MJ-25W-SOL12-30C**

**Product ID: 286572**

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

**Options:**

**EPL-MJ-25W-SOL12-30C-Color**

**Example: EPL-MJ-25W-SOL12-30C-RED**

| Color | |
|---|---|
| RED | -RED |
| GREEN | -GRN |
| BLUE | -BLU |
| AMBER | -AMB |
| PURPLE | -PRPL |
| WHITE 5000K | -50K |
| WHITE 4500K | -45K |
| WHITE 4000K | -40K |
| WHITE 3500K | -35K |
| WHITE 3000K | -30K |

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**