

EPSLED-HBNM-SOL-80C-C1D2-20C

C1D1 Solar Powered Explosion Proof LED Strobe Light - 80' Cord - C1D2 Panel - Group B Rated
Product ID: 150894

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.

EPSLED-HBNM-SOL-80C-C1D2-20C Explosion Proof Solar Powered LED Strobe Lamp

Listing: United States & Canada

Lamp Type: Strobing LED

Lamp Dimensions: 8.86" H x 13.75" Dia

Solar Panel Dimensions: 11-3/8"L x 15-3/4"D

Weight: 45 lbs (Strobe Only)

Voltage: 12V DC

Battery: (4) 18aH Sealed Lead Acid Batteries

Runtime: -

Charging Time: 5 Hours

Total Watts: 10W

Lumens: 1,050

LED Lamp Life Expectancy: 50,000+ Hours

Beam Angle: 360°

Lighting Configuration: Strobing Flood

Strobe Count: 4 per Second

Operating Temp Rating: T3C

Housing Material: Cast Aluminum

Finish: Polyester Powder Coating

Mounting: Inverted Pendant Mount

Wiring: 80' 10/2 SOOW Cord

Light Color Options: Red, Green, Blue, Amber or White

Ratings/Approvals

Class I, Division 1 & 2, Groups A, B, C, D

Class I, Zones 1 & 2, Groups IIC, IIB, IIA

Class II, Divisions 1 & 2 Groups E, F, G

UL 844

UL 1598 Marine Type

Suitable for Wet Environments

CSA C22.2 No. 250 and No. 137 Listed

T3C Temperature Rating

C1D2 Rated Panel Assembly

C1D2 Rated Control Box Assembly

Special Orders - Special Requirements

Contact us for special requirements

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Made in Texas

The EPSLED-HBNM-SOL-80C-C1D2-20C Solar Powered Explosion Proof LED Strobe Light from Larson Electronics is a reliable hydrogen rated lighting solution for remote areas and standalone applications where connection to external power is either impractical or unavailable. Charged by a Class I, Division 2 solar panel, four 12V AC 18aH sealed lead acid batteries provide constant, reliable power to the LED strobe light.

The EPSLED-HBNM-SOL-80C-C1D2-20C is a sustainable LED strobe lighting solution for hazardous locations and remote sites. This explosion proof 10 watt LED strobe light from Larson Electronics is UL and CSA Listed for Class I Division 1 & 2 Groups A, B, C, and D; Class II Division 1 & 2 Groups E, F and G; and Class III. This explosion proof LED strobe light is suitable for wet locations as well. This explosion proof LED fixture comes in a variety of colors that make it useful for warning lights, indicator lights, and any other purpose where a different colored light is needed or required. The color options for the EPSLED-HBNM-SOL-80C-C1D2-20C are red, blue, green, amber, purple, and white. With a high lumen output of 1050 lumens at only 10 watts, this explosion proof LED light fixture is both efficient and powerful. This LED light fixture is also available in two different voltages; 120-277V AC or 12V DC or 24V DC. A 20' photovoltaic cable between the enclosure and light fixture allows for easy mounting of the panel and control box.

[Click Photo to Enlarge](#)

The control box is equipped with either a day/night sensor and motion sensor or with an on/off switch. The day/night and motion sensor is programmed to activate the solar panel in the evening and shut it off during the day, while the motion sensor will activate the panel upon detecting movement. The on/off switch will activate and shut off the solar panel according to the operator's preference.

Operators can switch between modes with a toggle switch.

This solar-powered LED strobe light is constructed of copper free cast aluminum with a polyester powder coated finish. The IP67-rated unit comes with a T3C temperature rating.

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.

Power/Wiring: This EPSLED-HBNM-SOL-80C-C1D2-20C is powered by four 12V AC 18aH sealed lead acid batteries that are recharged by the solar panel. These rechargeable batteries provide a continuous supply of steady, reliable power. The lead acid battery pack is contained within a stainless steel NEMA 4X Class I, Division 2 control box, not the light. This fixture ships with 80 feet of 10/2 SOOW cord that connects the explosion proof strobe light to the solar panel. Custom lengths are available upon request. Please contact us for special requirements. Charging time for the battery bank is 5 hours when exposed to direct sunlight. 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.

Mounting: The EPSLED-HBNM-SOL-80C-C1D2-20C features an inverted pendant

mount for compatible surfaces, walls or ceilings. This mounting configuration ensures maximum visibility of the explosion proof LED strobe fixture.

NOTE: *Larson Electronics has further upgraded the options available with this light. We expect the light to be mounted separately from the panel. This incorporates a class rated panel, charge controller, and sealed battery solution. This allows the panel to be installed within C1D2 environments. This means the solar panel can be mounted in direct sunlight (not in the C1D1 hazardous area) while the light is mounted in a C1D1 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 non class rated panel solution for customers who can mount the panel completely outside of the hazloc environment. No C1D1 rated solar panels exist, so the panel must be located outside the C1D1 environment in either panel solution offered.

Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste treatment plants, remote locations 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.

Frequently Asked Questions (FAQ)

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Product ID: 150894

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPSLED-HBNM-SOL-80C-C1D2-20C-Color-Function-Mount

Example: EPSLED-HBNM-SOL-80C-C1D2-20C-RED-DAYNIGHT-CLG

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

Function	
DAY-NIGHT	-DAYNIGHT
MOTION ONLY	-MOTIONONLY
ON-OFF ONLY	-ONOFF
NO CONTROLS	-NONE

Mount	
CEILING	-CLG
WALL	-WLM
PENDANT	-PND

Links (Click on the below items to view):

- [Dimensional Drawing 2D](#)
- [HigResPic1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)