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HAL-LED-SOL-80C-C1D2-20C

10W Solar Powered LED Hazardous Location Light - C1D2 30W Panel - C1D2 SS N4X Control Box - 80' Cord

Product ID: 222190

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.

HAL-LED-SOL-80C-C1D2-20C Hazardous Location Solar Powered LED Strobe Lamp

Listing: United States & Canada
Lamp Type: LED
Lamp Dimensions: 5.94" x 9.6"
Solar Panel Dimensions: 11-3/8"L x 15-3/4"D
Weight: -
Voltage: 12V DC
Battery: (4) 18aH Sealed Lead Acid Batteries
Runtime: 12 Hours
Charging Time: 5 Hours
Panel Watts: 30W
Lamp Watts: 10W (7W for Colored Strobe)
Lumens: 1,050
LED Lamp Life Expectancy: 50,000+ Hours
Light Color Options: Red, Green, Blue, Amber or White
Beam Angle: 360°
Lighting Configuration: Strobing or Steady Burn
Housing Material: Copper-free Cast Aluminum Alloy
Finish: Baked Powder Epoxy Coating
Lamp Mounting: Wall, Ceiling or Pendant
Panel Mounting: Flat Surface / Round/Square Pole
Wiring: 80` 10/2 SOOW Cord

Ratings/Approvals

Class I, Division 2 Groups A,B,C,D
UL 1570
UL 595: Marine Outside Type
UL 844: Class I, Division 2
UL Listed to CSA 22.2-137
NEMA 4X
USCG Accepted
CSA Certified
New York City Department of Buildings Approved
Material meets UL 94-V-0 standards for flame retardancy
UL for Safety for Supplemental Requirements for Luminaries for Installation on Marine Vessels
C1D2 Rated Panel Assembly
C1D2 Rated Control Box Assembly

Special Orders - Special Requirements

Contact us for special requirements
Intl: 1-903-270-1187
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Made in Texas

The HAL-LED-SOL-80C-C1D2-20C Solar Powered LED Hazardous Location Light from Larson Electronics is a reliable 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 protected by a Class I, Division 2 enclosure, provide constant, reliable power to the LED strobe light.

This hazardous location LED light is powered by four 8aH sealed lead acid batteries that are recharged by a 30-watt solar panel. Light output comes from a 10-watt LED lamp that produces 1,050 lumens. This Class I, Division 2 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.

The color options for the HAL-LED-SOL-80C-C1D2-20C are red, blue, green, amber and white. The illumination produced by the Class I, Division 2 LED light will cover an area approximately 55’ long x 55’ wide when mounted 12 feet from the ground. This solar-powered LED strobe light is constructed of copper free cast aluminum with a baked powder epoxy finish.



Surface Mount Mounting



Pendant Mount



Stanchion Mount



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. 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.

Wiring/Power: This HAL-LED-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.
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 light runs for 12 hours when the battery is fully charged. Charging time for the sealed lead acid batteries is 5 hours when exposed to direct sunlight. Indirect sunlight will extend the charge time.
Mounting: Mounting options include ceiling, wall and pendant for the lamp fixture and flat surface or round/square pole mounting such as on utility poles or structure supports for the solar panel.
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.

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Frequently Asked Questions (FAQ)


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HAL-LED-SOL-80C-C1D2-20C

Product ID: 222190

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HAL-LED-SOL-80C-C1D2-20C-Color-Mount-Configuration

Example: HAL-LED-SOL-80C-C1D2-20C-RED-WALL-STEADY-Day.Night

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

Mount	
WALL	-WALL
CEILING	-CLG
PENDANT	-PND
25D STANCHION	-25DSTNCH

Configuration	
STEADY DAY/NIGHT	-STEADY-Day.Night
STEADY ON/OFF	-STEADY-On.Off
STEADY 24/7	-STEADY-24.7
STEADY/MOTION	-STEADY-MOTION
STROBE DAY/NIGHT	-STROBE-Day.Night
STROBE ON/OFF	-STROBE-On.Off
STROBE 24/7	-STROBE-24.7
STROBE/MOTION	-STROBE-MOTION

Links (Click on the below items to view):

- **Operations Manual**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**