

## HAL-SPNL-20

### 20W Explosion Proof Solar Panel - Class I, Div 2 - 12V - IP65 Junction Box

Product ID: 264919

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-SPNL-20 Explosion Proof Solar Panel

Listing: NRTL Listed for United States and Canada

Solar Cells: Crystalline Silicon

Panel Dimensions: 16.7" x 19.8" x 2"

Cells Orientation: 36 Cells

Weight: 6 lbs

Voltage: 12V (Nominal)

Maximum System Voltage: 50V

Watts: 20W

Current: 1.12A

Module Efficiency: 9.4%

Tolerance: +/- 10%

Limiting Reverse Current: 1.29A

Temperature Coefficient of Isc: 0.105%/°C

Temperature Coefficient of Voc: -0.360%/°C

Temperature Coefficient of Pmax: -0.45%/°C

Maximum Fuse Rating: 3A

Open Circuit Voltage - Voc: 22.1V

Short Circuit Current - Isc: 1.16A

Materials: Silver Anodized Aluminum (Frame), Polyester (Back), EVA (Encapsulant)

Cover: High Transmission 1/8" Glass

Connections: (4) Terminal Screw Connection Blocks

Hub Size: 1/2"

Color: White

#### Ratings/Approvals

Class I, Division 2

IP65 Junction Box

Certified to IEC

Certified to UL

#### Special Orders - Special Requirements

Contact us for special requirements

Intl: 1-903-270-1187

Toll Free: 1-800-369-6671

Fax: 1-903-498-3364

E-mail: [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com)

**The HAL-SPNL-20 20-watt Explosion Proof Solar Panel from Larson Electronics is a high output module designed for solar-powered systems in Class I, Division 2 hazardous locations. The 12V unit contains 36 crystalline silicon cells. An IP65 rated junction box is available for housing connections between the explosion proof solar panel and other system components.**

This explosion proof module is a crucial component in solar-powered systems. The 20-watt solar panel operates on 12V (nominal) with a module efficiency rate of 9.4 percent. At maximum power, the unit offers 17.9V and a current of 1.12A. Featuring a Class C application class, the module comes with an 3A maximum fuse rating. The lightweight unit weighs 6 lbs and measures 16.7" x 19.8" x 2". This solar panel is certified to IEC and UL.

**Durability/Wiring:** The HAL-SPNL-20 is designed to withstand rugged, outdoor environments. The frame is constructed of silver anodized aluminum, while the back cover is made out of white polyester for insulation. For extra protection, the front cover is constructed of high transmission glass (1/8" thick). The hazardous location solar panel comes with a sturdy J-type junction box equipped with 1/2" hub with accessible terminals for connections to other components of the solar-powered system. A total of four terminal screw connection blocks is available, capable of accepting 8-14 AWG wires.

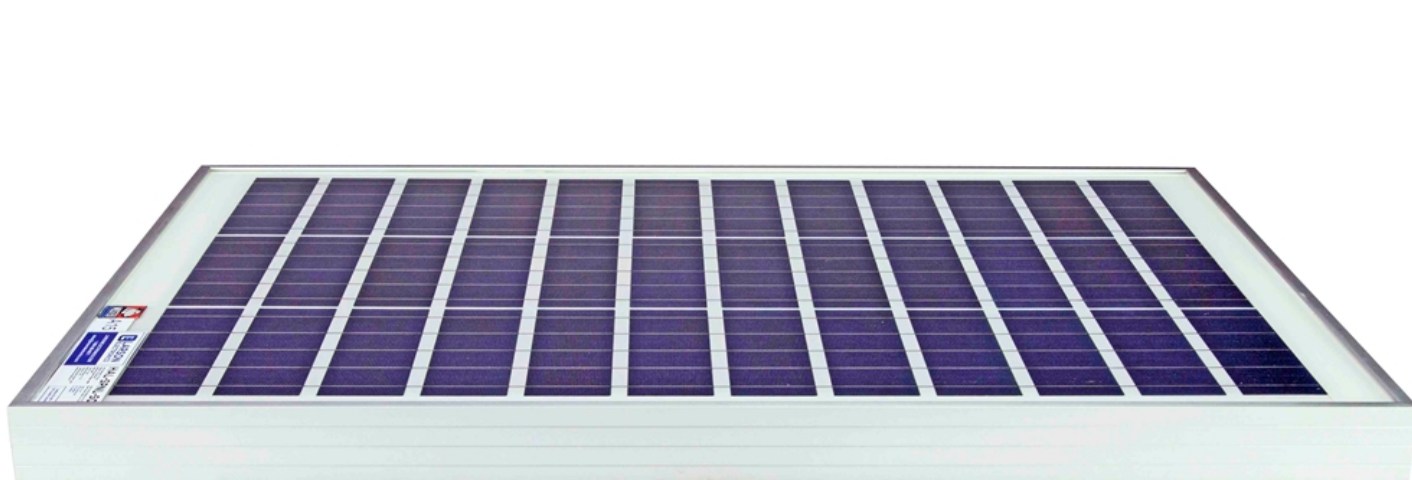
**Applications:** Hazardous locations, chemical processing plants, refineries, oil and gas, solar-powered systems, remote locations, alternative energy, sustainable energy systems, solar lighting, portable power, battery-powered systems, rechargeable lighting and more.

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](mailto:sales@larsonelectronics.com) for more information about our custom options tailored to meet your specific industry needs.

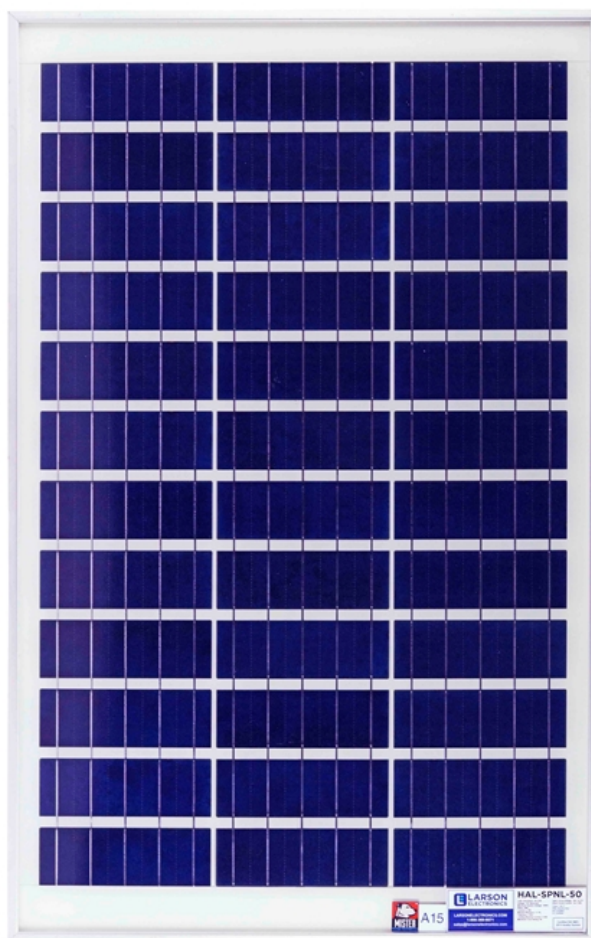
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## Frequently Asked Questions (FAQ)









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

Links (Click on the below items to view):

- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [CE Certificate](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 3, Misc](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
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