

HAL-PM-SPNL-50

50W Explosion Proof Solar Panel - Class I, Div 2 - 12V - IP65 Junction Box - Pipe Clamp Mount

Product ID: 148097

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-PM-SPNL-50 50W Explosion Proof Pipe Mount Solar Panel

Solar Cells: Crystalline Silicon
Panel Dimensions: 33.0" x 21.1" x 2"
Cells Orientation: 36 Cells
Weight: 13.2 lbs
Voltage: 12V (Nominal)
Maximum System Voltage: 1000V
Watts: 50W
Current: 2.79A
Module Efficiency: 11.1%
Tolerance: +/- 10%
Limiting Reverse Current: 3.20A
Temperature Coefficient of Isc: 0.105%/°C
Temperature Coefficient of Voc: -0.360%/°C
Temperature Coefficient of Pmax: -0.45%/°C
Maximum Fuse Rating: 8A
Open Circuit Voltage - Voc: 22.1V
Short Circuit Current - Isc: 2.9A
Mounting: Pipe Clamp Mounting System
Pole Diameter Options: 1.5", 2", 3" or 3.5"
Materials: Silver Anodized Aluminum (Frame), Polyester (Back), EVA (Encapsulant)
Cover: High Transmission 1/8" Glass
Hubs: (4) Terminal Screw Connection Blocks
Color: White

Ratings/Approvals

Class I Division 2
IP65 Junction Box
IEC Certified
NRTL Certified to UL Certified

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

The HAL-PM-SPNL-50 from Larson Electronics is a 50-watt Explosion Proof Pole Clamp Mount Solar Panel that 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. The HAL-PM-SPNL-50 features a pole clamp mounting system that allows operators to securely mount this panel to a vertical pole or pipe at their desired height while holding the panel at the optimum 45° angle.

This explosion proof module is a crucial component in solar-powered systems. The 50-watt solar panel operates on 12V (nominal) with a module efficiency rate of 11.1 percent. At maximum power, the unit offers 17.9V and a current of 2.79A. Featuring a Class C application class, the module comes with an 8A maximum fuse rating. The lightweight unit weighs 13.2 lbs and measures 33.0" x 21.1" x 2". This solar panel is IEC and NRTL Certified to UL certified.

Durability/Wiring: The HAL-PM-SPNL-50 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 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.

Mounting: The HAL-PM-SPNL-50 features a pole clamp mounting system. This mounting system allows this solar panel to be securely mounted to vertical poles or pipes of varying diameters. Operators simply hold the panel at the desired height on the pipe or pole and tighten the through bolts that hold the clamp and solar panel mount together around the pole. Each solar panel has two clamps (one at the top and one at the bottom) to ensure a stable mounting position. Once mounted, this solar panel is designed to hold at a 45° angle from the pipe or pole it is mounted to. The HAL-PM-SPNL-50 is available with mounts for the following pipe or pole diameters: 1.5", 2", 3" or 3.5" Please make your selection when ordering below.

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 for more information about our custom options tailored to meet your specific industry needs.

Frequently Asked Questions (FAQ)









HAL-PM-SPNL-50

Product ID: 148097

Export Control Classification Number (ECCN): EAR99

Options:

HAL-PM-SPNL-50-Pipe OD

Example: HAL-PM-SPNL-50-1.5in

Pipe OD	
1.5	-1.5in
2	-2in
3	-3in
3.5	-3.5in

Links (Click on the below items to view):

- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)