Larson Electronics LLC
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Product ID: 144674

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image:

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.

Buy American Compliant

The EPL-20W-HID-X12V-25-HR from Larson Electronics is an explosion proof handheld inline low voltage search light that has a Class I Division 1 Groups A, B, C and D approval and produces a brilliant light beam capable of reaching over 2,500 feet, making it ideal for inspection and work activities where long range is important. The EPL-20W-HID-X12V-25-HR features 25 feet of cord on an explosion proof cord reel and an inline encapsulated transformer that steps down the input voltage from 120-277V AC down to 12V DC. The EPL-20W-HID-X12V-25-HR is designed to be hardwired and is safe to use within hazardous work areas.

The EPL-20W-HID-X12V-25-HR features a stepdown transformer that steps the 120-277V AC input voltage down to 12V DC on the output side. The transformer is located on the input side of the cord reel. The transformer leads to the explosion proof cord reel which is equipped with 25 feet of 16/3 chemical and abrasion resistant SOOW cable attached to the unit`s handheld HID flashlight.

Cord Reel Information: The cord reel on the EPL-20W-HID-X12V-25-HR is built with modular

components and is coupled with a spark proof ratchet and hazardous location slip ring housing. The reel is constructed from highly durable fabricated steel with a cast aluminum slip ring enclosure. All of the steel parts are finished with a rugged gray epoxy coating. The cord reel on this explosion proof handheld HID search light has a spring activated ratchet and a 4-roller adjustable cable guide and ball. The cord reel can be used indoors or outdoors./FONT>

This HID flashlight features always on operation to provide operators with a constant source of light for a variety of applications including tank cleaning, close work and inspections. A single 20 watt short arc Xenide HID bulb powered by an internal ballast produces a 1200 lumen beam capable of reaching up to 2,500 feet. This handheld spotlight is IP68 rated waterproof, making it capable of withstanding submersion under pressure without damage. The beam on this light is a 12° spot configuration and is not adjustable. The HID bulb in this unit provides high power and efficiency as well as a 6500k color temperature, producing a powerful beam that is a brilliant white-blue in color. The durable aluminum body has a black anodized coating to provide durable protection for this units` internal electronics and an aesthetically pleasing appearance.

The EPL-20W-HID-X12V-25-HR explosion proof inline searchlight has a single push button switch that allows easy one handed operation, which combined with its rugged construction and powerful beam, makes it a competent all around flashlight capable of serving in industrial, commercial, tactical and private applications with equal effectiveness.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

This hazardous location approved searchlight is UL Certified:
Class I Division 1 Groups A, B, C and D
Class I Division 2 Groups A, B, C and D
Class II Division 1 Groups E, F and G
Class II Division 2 Groups E, F and G

A brief note about High Intensity Discharge (HID) flashlights:

Incandescent flashlights have a bulb with a filament, much like the common household light bulb. A consistent amount of current is fed to the bulb. The filament glows and light and heat are produced. The filament glows because it is a poor conductor of electricity. Eventually the filament breaks due to vibration or diminished capacity. HID flashlights have a globe of gas that contains bounded by electrodes. A spark jumps across the electrodes igniting the gas. Initially, the amount of current required to ignite the gas is higher. Once the gas is lit, much less current is required to keep the gas burning.

A device called a ballast controls the amount of current sent to the bulb. HID flashlights use about 50% less energy than incandescent bulbs, which means longer lamp life than halogen incandescent bulbs. More importantly, HID lights have no filament to break. Thus, the HID bulb life is around 2500 hours, compared to several hundred hours of the filament based incandescent bulb. The HID bulb is more efficient, so it produces much more light with less energy over a long period of time. The trade off, however, is that the ballast that sends current to the bulb is an expensive addition, increasing the cost of the flashlight. The bulb itself is also significantly more expensive than halogen bulbs.

Voltage: The step-down transformer installed in-line provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These transformers can operate on current ranging from 90 to 305V AC or 127 to 431V DC without any modifications necessary as a result. This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in electrical systems which would otherwise result in burning up or premature LED failure without it. The inline transformer then steps down the input voltage to 12V DC to power the explosion proof searchlight

Wiring/Plug: This explosion proof HID search light is equipped with 25 feet of 16/3 chemical and abrasion resistant SOOW cord that is designed to be hardwired within a hazardous work area.

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.

Specifications / Additional Information

EPL-20W-HID-X12V-25-HR Explosion Proof Flashlight w/ Stepdown Transformer	**Approvals**
Lamp Type: XENIDE HID Bulb	Class I Division 1 Groups A, B, C and D
Dimensions: 11.5" L	Class I Division 2 Groups A, B, C and D
Watts: 20	Class II Division 1 Groups E, F and G
Voltage: 120-277V AC Stepped Down to 12V DC	Class II Division 2 Groups E, F and G
Transformer: Encapsulated Inline Transformer	Equipped with General Area Cord Cap
HID Life Expectancy: 2500 hours	1200 Lumens of Light Output
Lumens: 1200	IP68 Waterproof to 3 Meters
Lighting Configuration: Spot	T4A Temperature Rating
Materials: Aluminum Housing	Steps Down 12--277V AC Input Voltage to 12V DC
Weight: 14.7 lbs.	Hazardous Location Classifications
LUX: At 10 ft: 5,140	
LUX: At the lens: 182,000	**Special Orders- Requirements**
Ambient Temp Range: -32°C to +45°C	Contact us for special requirements

Wiring: 25` 16/3 SOOW

Lens Temp: 186°F

Head Temp: 90°F

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

Same Day Shipping Available-Scroll Down to Purchase-

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Frequently Asked Questions (FAQ)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/144674.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com//images/product/NECCert/144674.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/144674.JPG)
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