Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Product ID: 144448

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-X24V-100 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-X24V-100 features 100 feet of cord and an inline encapsulated transformer that steps down the input voltage from 120-277V AC down to 24V DC. There is 10` of cord between the transformer and the included general area cord cap.

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-X24V-100 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 24V DC to power the explosion proof searchlight

PLEASE NOTE THE LIGHT ITSELF IS EXPLOSION PROOF BUT THE CORD CAP IS NOT AND MUST BE CONNECTED IN A LOCATION SEPARATE FROM THE HAZARDOUS AREA

Click Photos to Enlarge



5-15 Straight Blade Plug
15 Amp / 125V Rated



L5-15 Twist Lock Plug
15 Amp / 125V Rated



L6-15 Twist Lock Plug
15 Amp / 250V Rated



UK BS1363 Straight Blade Plug
13 Amp / 250V Rated / Internal Fuse



Intl Schuko 2-Pin Plug
16 Amp / 250V Rated / Grounded



Flying Leads / Pigtail Wires

Wiring/Plug: This explosion proof HID search light is equipped with 100 feet of 12/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets. There is an additional 10 feet of 16/3 SOOW cord between the inline encapsulated transformer and the general area cord cap. Plug options include standard 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.

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-X24V-100 Explosion Proof Flashlight w/ Stepdown Transformer

Lamp Type: XENIDE HID Bulb

Dimensions: 11.5" L

Watts: 20

Voltage: 120-277V AC Stepped Down to 24V DC

Transformer: Encapsulated Inline Transformer

HID Life Expectancy: 2500 hours

Lumens: 1200

Lighting Configuration: Spot

Materials: Aluminum Housing

Weight: 14.7 lbs.

LUX: At 10 ft: 5,140

LUX: At the lens: 182,000

Ambient Temp Range: -32°C to +45°C

Wiring: 100` 16/3 SOOW w/ Additional 10` Between Cord Cap and Transformer

Lens Temp: 186°F

Head Temp: 90°F

Cord Cap: 5-15 Straight, 6-15 Straight, L5-15 Twist, L6-15 Twist, UK BS1363, Intl. Schuko or Pigtail

Approvals

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

Equipped with General Area Cord Cap

1200 Lumens of Light Output

IP68 Waterproof to 3 Meters

T4A Temperature Rating

Steps Down 12--277V AC Input Voltage to 12V DC

Hazardous Location Classifications

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

Same Day Shipping Available-Scroll Down to Purchase-

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Frequently Asked Questions (FAQ)

There are no Faqs



Image: This photo displays the ATX-20-S battery being charged by the charging stand.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

Product ID: 144448

Export Control Classification Number (ECCN): EAR99

Options:

-Cord Cap
Example: -5.15

Cord Cap	
5-15 STRAIGHT	-5.15
6-15 STRAIGHT	-6.15
L5-15 TWIST	-L5.15
L6-15 TWIST	-L6.15
UK BS1363	-BS1363
INTL SCHUKO	-Schuko
PIGTAIL	-Pigtail

Links (Click on the below items to view):

- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com//images/product/NECCert/144448.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/144448.JPG)
- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/144448.JPG)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)