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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EPL-SL-4X20W.HID-X15C-X12V-25

80W Explosion Proof String Light - C1D1/C2D1 - (4) HID Lamps - 120-277V to 12V DC - IP68

Product ID: 240624

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.

EPL-SL-4X20W.HID-X15C-X12V-25 Explosion Proof HID String Light w/ Stepdown Transformer	**Ratings**
Listing: United States - Canada	Class I, Divisions 1&2 Groups A,B,C,D
Lamp Technology: XENIDE HID Bulb	Class II, Divisions 1&2 Groups E,F,G
Lamp Qty: (4)	IP68 Waterproof to 3 Meters
Single-lamp Dimensions: 11.16"-L x 3"-OD	T4A Temperature Rating
Weight: -	Steps Down 120-277V AC Input Voltage to 12V DC
Voltage: 120-277V AC Stepped Down to 12V DC	
Transformer: Encapsulated Inline Transformer	
Total Watts: 80W	
Single-lamp Watts: 20W	
Total Lumens: 4800 lms	
Single-lamp Lumens: 1200 lms	
Luminous Efficacy: -	

HID Life Expectancy: 2500+ Hours
Color Temperature: 6500K
Color Rendering Index: -
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
LUX @ 10': 5,140
LUX @ Lens: 182,000
Beam Angle: 12°
Lighting Configuration: Spot
Power Efficiency: -
Power Factor: -
Ambient Temp Range: -32°C to +45°C
Lens Temp: 186°F
Head Temp: 90°F
Operating Temp Rating: T4A
Housing Material: Anodized Aluminum
Mounting: String
Wiring: 92' SOOW Cord - 10' 16/3 SOOW Between Cord Cap and Inline Transformer, 25' 12/3 SOOW Between Transformer and First Lamp, 15' 12/3 SOOW Between Lamps (Total 45' 12/3 SOOW), 3' 12/3 SOOW per Lamp Drop Off @ Back Bone (Total 12' 12/3 SOOW)
Cord Cap Options: 5-15 Straight, 6-15 Straight, L5-15 Twist, L6-15 Twist, UK BS1363, Intl. Schuko or Pigtail

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The EPL-SL-4X20W.HID-X15C-X12V-25 from Larson Electronics is an Explosion Proof HID String Light for combustible facilities and hazardous locations. This unit contains four, explosion proof HID lamps and comes equipped with an inline weatherproof transformer that takes 120-277V AC input voltage and steps it down to low voltage 12V DC. Operators are provided with 92` of SOOW cord along the system and a general-area cord cap.

The EPL-SL-4X20W.HID-X15C-X12V-25 provides a rugged lighting solution in Class I, Divisions 1 & 2 and Class II, Divisions 1 & 2 rated combustible sites. This 80-watt string light is equipped with four, explosion proof HID lamps and operates on 120-277V AC (input) stepped down to 12V DC (output) via a weatherproof inline transformer. During use, the power supply must remain outside of the hazardous location. Each 20-watt lamp contains a short-arc Xenide HID bulb powered by an internal ballast, which produces a 1200 lumen beam capable of reaching up to 2,500 feet. The beam on this light is a 12° spot configuration. The HID bulb in this unit provides high power and efficiency, as well as a 6500k color temperature rating, producing a powerful beam that is a brilliant white-blue in color.

The aluminum body has a black anodized coating to provide durable protection for the unit`s internal electronics. This explosion proof system is IP68 rated

waterproof, making it capable of withstanding submersion under pressure without damage.



Click Photo to Enlarge

HID Benefits: 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 provides the ability to automatically monitor and adjust input current to maintain the correct voltage levels regardless of input levels across a specific range. These transformers can operate on current ranging from 120-277V AC to 12V 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.
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 string light is equipped with 10 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets in non-hazardous locations. 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.
In addition to the 10` of 16/3 SOOW cord between the cord cap and inline transformer, 25` of 12/3 SOOW cord is provided between the weatherproof transformer and the first explosion proof lamp. A total of 15` of 12/3 SOOW cord can be found between each lamp (total: 45`). Each HID light contains 3` of 12/3 SOOW cord, serving as the drop off from the back bone (total: 12`).
Mounting: The explosion proof HID string light is compatible with standard string light configurations and installations.
Suggested Applications: Manufacturing, Industrial, Warehouse, Lighting, Explosion Proof Light Fixtures, Grinders, Wet areas or Locations Where Combustible Dust is Present.
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.

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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)

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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EPL-SL-4X20W.HID-X15C-X12V-25

Product ID: 240624

Export Control Classification Number (ECCN): EAR99

Options:

EPL-SL-4X20W.HID-X15C-X12V-25-Cord Cap

Example: EPL-SL-4X20W.HID-X15C-X12V-25-5.15

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):

- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**