Larson Electronics LLC
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EPL-SL-10-12X-12D-LED-12.3-E2E

Explosion Proof LED String Lights - 10 Lamp - Daisy Chain Connection - 12/3 - 12' Spacing - 12' Drop

Product ID: 105830

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-10-12X-12D-LED-12.3-E2E
Listing: United States & Canada
Lamp Type: LED
Dimensions- Each Lamp: L-16.5" Diam-5"
Single Lamp Weight: 6 lbs
Total Weight: 55 lbs
Total Weight: 100 lbs
Voltage: 120-277V AC or 11-25V AC/DC
Total Watts: 50
Single Lamp Watt: 10 watts
Total Lumens: 5,250
Single Lamp Lumens: 1,050
Lamp Life: 50,000+ Hours
Luminous Efficacy: 105 Lm/W
Color Temp: 5600K
Amps: 0.84 120V AC
Globe Guard Material: Copper Free Cast Aluminum
Globe Material: Hardened Borosilicate Glass
Handle Material: Rubber
Mounting: Handheld / Hanging via Aluminum Hooks
Handlamp Wiring: 12` 14/3 SOOW Cable Drop from Backbone
Wiring: 145` 12/3 SOOW Cable - 12` between lamps - 25` input whip - 10` output whip
Total Length: 125`
Cord Cap: 5-15 or 6-20 Explosion Proof Plug

U.L. Ratings
Class 1, Divisions 1 & 2, Groups C, D
Class 2, Divisions 1 & 2, Groups, F, G
Class 1, Zone 1, Group IIB
NEMA 4X
Certified to Canadian Standards

Special Orders - Special Requirements
Contact us for special requirements

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Made in the USA

The Larson Electronics EPL-SL-10-12X-12D-LED-12.3-E2E Explosion Proof String Light set is UL Listed Class 1 Division 1 Groups C and D and is ideal for general close work and inspection activities in hazardous locations requiring explosion proof protection.

Click here to see the Incandescent version of this light

This explosion proof string light set from Larson Electronics contains a total of ten 10 watt work lights equipped with aluminum hooks and connected in series along 108 feet of 12/3 SOOW explosion proof cord. A T junction is mounted every twelve feet, with 12 feet of 14/3 SOOW cord connecting a single drop light to the backbone. The cord on this unit is terminated with a 20 amp 5-20 or 6-20 Class 1, Division 1 explosion proof plug for complete protection. With this arrangement, each drop light cannot spark if pulled apart or dragged. An 25 foot tail section of main SOOW cord is included to allow ample length for connection to power sources. An explosion proof outlet at the end of the backbone provides the ability to connect multiple units end to end, allowing operators to daisy chain multiple stringers together along the job site.

10 Watt LED Bulb



T Connector



25` whip w/ EXP Plug

Click Photos to Enlarge



100 Watt Incandescent Bulb

Click Photos to Enlarge

Click Photos to Enlarge



With the EPL-SL-10-12X-12D-LED-12.3-E2E

Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

This unit incorporates ten explosion proof LED hand lamps connected in series and is suitable for use in areas where petrochemical vapors and various dusts are present. The machined aluminum housings, cast aluminum guard, tempered glass lamp globe, and abrasion resistant cord make this a very durable unit that will resist damage from chemicals, abrasion, vibrations and impacts. This string lighting solution will provide the lighting you require in a flexible, easy to manage configuration. The hand lamps can be moved around and hooked to different points on your scaffold. The lights, however must remain within 12 feet of one other. Each T section contains a swivel handle, allowing operators to suspend the entire backbone off the ground and out of the work space.

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5-15 Straight Blade Plug



6-20 Straight Blade Plug

This explosion proof string light is equipped with an explosion proof outlet 12` from the last junction point, allowing operators to connect multiple units together end to end. Operators can daisy chain up to 15 units end to end in 120 volt or 30 units in 240 volt configurations. Up to four units in 24 volt AC/DC can be connected end to end. A 25` input whip terminated in an explosion proof cord cap completes the explosion proof protection of this string light. Cord cap options include a 5-15 15 amp straight blade plug for use with 120V explosion proof outlets or a 6-20 20 amp straight blade plug for use with 220-240V explosion proof outlets.

Stringer Energy Consumption Comparison

	Incandescent	CFL	LED
Wattage	1000 watts	260 watts	100 watts
Amp Draw @ 120V AC	8.34 amps	2.17 amps	0.84 amps
Amp Draw @ 277V AC	3.61 amps	0.94 amps	0.36 amps
Amp Draw @ 12V DC	83.34 amps	21.67 amps	8.34 amps
Amp Draw @ 24V DC	41.67 amps	10.84 amps	4.17 amps
Lamp Life Expectancy	1,500 hours	8,000 hours	50,000 hours
Color Temperature	2800K	4300K	6000K
Operation cost per year (8hs/day @ 11c/kWh)	$321.2	$83.52	$32.12

This stringer light set is Class 1, Division 1 rated for Groups C and D and Class II, Division 1 Groups F and G. This unit is multi-voltage and configured to operate on 120-277V AC or 12-24V DC, please choose your configuration below.

Made in USA Quality

1. Federal Spec Cord.
2. Explosion Proof.
3. Total of (10) 10 watt LED Lamps.
4. Non-sparking aluminum construction.
5. UL Class 1 Div 1 Class 2 Div1
7. 120-277V AC or 12-24V DC Operation
8. SOOW cable.
9. Aluminum Hooks for Convenient Placement.
10. Daisy Chain Connections.

Lamp Features

100 watts of LED illumination
Non-sparking aluminum housings
Light weight mold T Junctions
Cast aluminum guard prevent lamp or globe damage
Tempered Soda-Lime Glass Lamp Globe
Integrated lamp shock absorbers prevent drop damage
Swivel hook for hanging and hands free operation
12/3 SOOW Abrasion Resistant Cable

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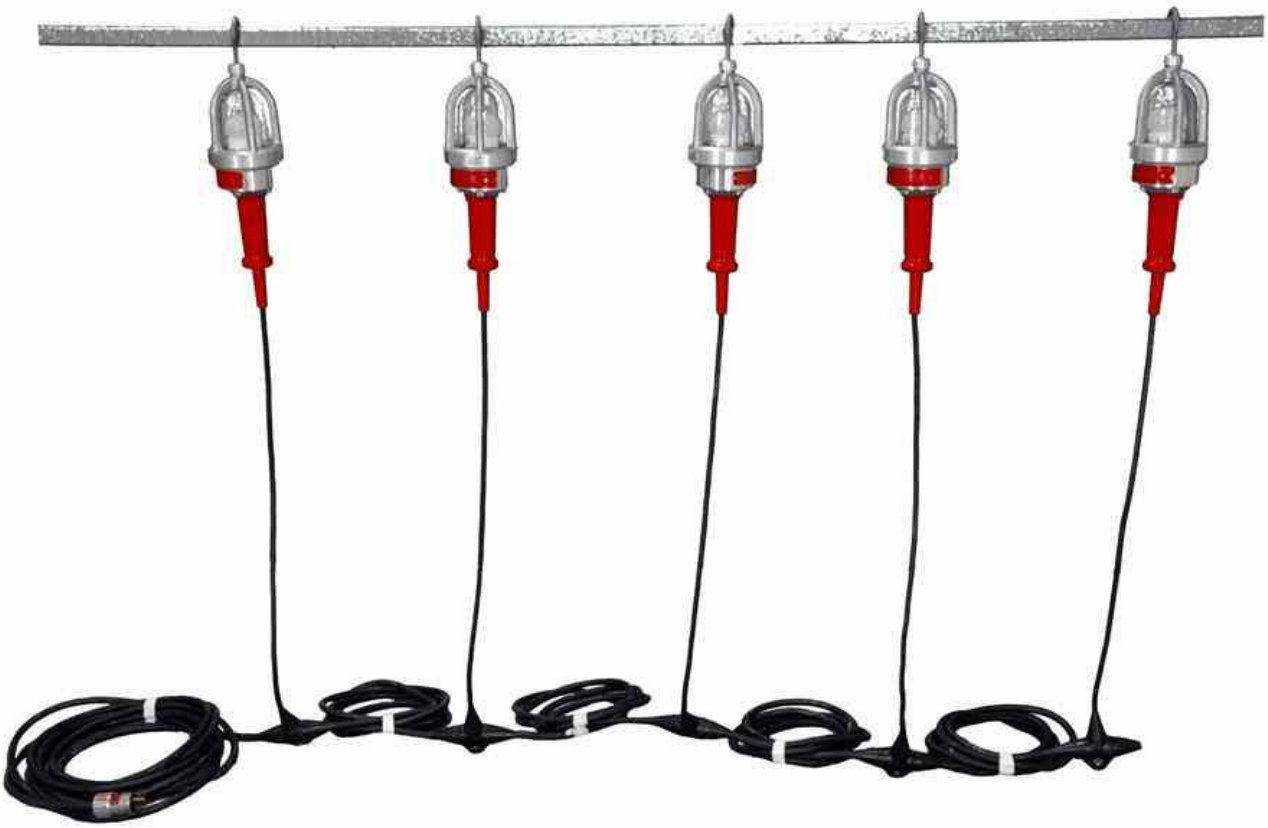
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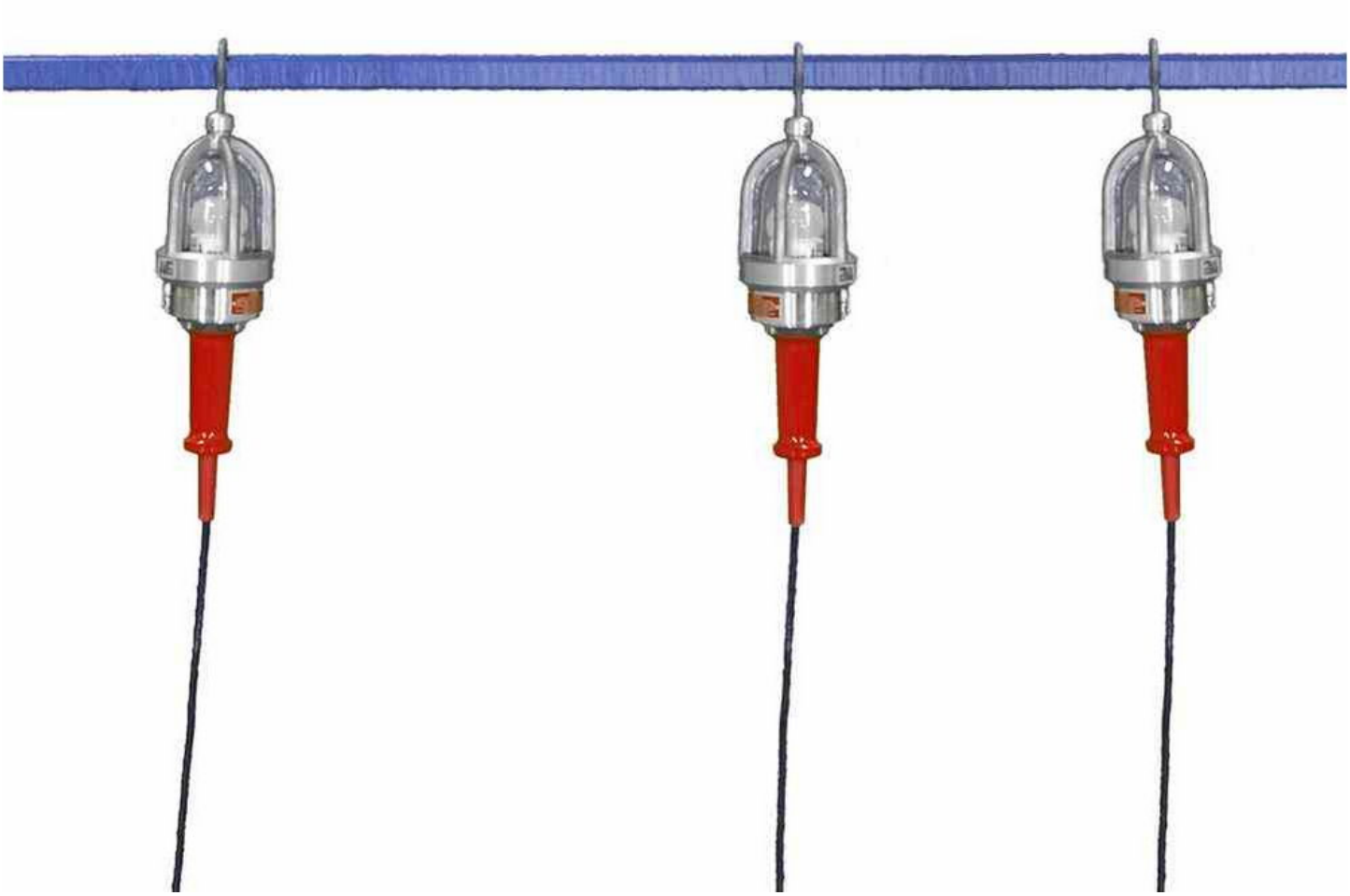
Frequently Asked Questions (FAQ)

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EPL-SL-10-12X-12D-LED-12.3-E2E
Product ID: 105830

Warranty: 36 Months

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:
EPL-SL-10-12X-12D-LED-12.3-E2E-Voltage
Example: EPL-SL-10-12X-12D-LED-12.3-E2E-120V

Voltage	
120V AC	-120V
240V AC	-240V
24V AC/DC	-24V

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**
- **MSDS (Material Safety Data Sheet**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**