

EPL-SL-4-50X-50LED-RT-MBC-EPP

200W Explosion Proof LED String Light - (4) 50W Fixtures Daisy Chained - Adjustable Magnetic Mount

Product ID: 224327



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-4-50X-50LED-RT-MBC-EPP Magnetic Mount Stringer

Listing: United States, Canada

Lamp Type: Cree LED

Lamp Qty: 4

Dimensions: 7.04"H x 7.04"W 5.72"D (per Lamp Head)

Total Weight: -

Single Lamp Weight: 7 lb

Voltage: 100-277 V AC, 50/60Hz

Total Watts: 200 W

Single Lamp Watt: 50 W

Total Lumens: 28,000 Lumens

Single Lamp Lumens: 7,000 Lumens

Luminous Efficacy: 140 Lm/W

Lamp Life: 60,000+ Hours

Color Temp: 5600K, 4500K or 3000K

Color Rendering Index: >75 CRI

Lamp Type: -

Lamp Base: -

Replacement Lamp: -

Lighting Configuration: 60° Flood or 125° Wide Flood

Power Efficiency: > 95%

Power Factor: 0.99

Amps: 1.68 A @ 120 V, 0.84 A @ 240 V, 0.73 A @ 277 V

Ambient Operating Temp Range: -50°C to +65°C

Temp Rating: T5

Materials: Cast Aluminum (Housing), Tempered Glass (Lens)

Mounting: Ceiling/Flat Surface Mount w/ (3) Magnets per LED Fixture

Wiring: 12/3 SOOW Cable w/ EXP Cord Cap - 50' Between Lamps, 50' Whip

Ratings/Approvals

Class I, Divisions 1 & 2 Groups C, D

Class II, Divisions 1 & 2 Groups E, F, G

T5 Temperature Rating

Certified to UL844 and C22.2 Standards

Paint Spray Booth Approved

LEL Approved

IP67 Rated Waterproof

Multiple Driver Banks

80% Lumen Retention after 60,000 Hours

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-214-616-6180

Total Length: 200`

Fax: 1-903-498-3364

EXP Cord Cap Options: 5-15P, 5-20P or 6-20P

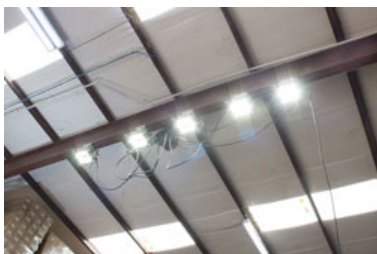
E-mail: sales@larsonelectronics.com

The EPL-SL-4-50X-50LED-RT-MBC-EPP from Larson Electronics is an Explosion Proof LED String Light Set that is approved for use in Class I, Divisions 1 & 2, Groups C and D and Class II, Divisions 1 & 2, Groups E, F, and G rated flammable work sites. Equipped with four 50-watt explosion proof LED lamps and 200` of 12/3 SOOW cable with an explosion proof cord cap, this daisy chain temporary lighting system provides 28,000 lumens of output and comes equipped with powerful magnetic mounting components per light head, allowing for flexibility within the job site.

This explosion proof string light set from Larson Electronics contains a total of four 50-watt work lights equipped with heavy-duty magnets at the base and connected in series along 200` of 12/3 SOOW cable. The 50-watt LED lights are evenly spaced with 50` of spacing between each lamp and 50` of input whip. The input whip is terminated in a heavy-duty, explosion proof cord cap for connection to preferred power sources. Each explosion proof light fixture provides 7,000 lumens of high quality light while drawing only 50 watts, for a combined 28,000 lumens at 200 watts. Color temperature options include 5600 K, 4500 K or 3000 K. These lights are direct replacement for 150 watt metal halide temporary fixtures. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps these fixtures to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention. Light weight and a low profile makes this unit an attractive alternative to larger and heavier traditional fixtures and requires less hardware to install.

This unit incorporates four explosion proof 50 watt LED lamps connected in series and is suitable for use in areas where petrochemical vapors and various dusts are present. The cast aluminum housings, tempered glass lens, 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 for job site illumination. The lamps can be moved around and mounted to different points within the work area. The lights, however must remain within 20 feet of one other.

Each explosion proof LED light features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains twelve individual LED boards configured in a series of banks. Each bank contains two LED boards with an individual driver. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.



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LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. 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 is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

This stringer light set is Class I, Division 1 & 2 rated for Groups C and D and Class II, Division 1 Groups E, F and G. This light is universal voltage capable and can be operated with 100-277 V AC, 50/60Hz. We also offer a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25V. This explosion proof LED light fixture is IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The cast aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronics.

[Click Photos to Enlarge](#)



5-15 Straight Blade Plug



5-20 Straight Blade Plug



6-20 Straight Blade Plug

Wiring & Plug: This explosion proof LED light is equipped with 200 feet of 12/3 chemical and abrasion resistant SOOW cord that is fitted with an explosion proof cord cap for easy connection to explosion proof outlets. Plug options include a 5-15 15 amp straight blade plug for use with 120V explosion proof outlets, a 5-20 20 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.

****PLEASE NOTE**** voltage ratings on plugs and outlets are **MAXIMUM** voltage. For low voltage applications, proper voltage must be applied to the outlet or damage to the light fixture will occur.

Mount: Each explosion proof LED light features an adjustable swivel bracket constructed of 3/8" aluminum. This aluminum mounting bracket has three 200 lb grip magnetic bases which provide a total of 600 lb of grip and allows operators to mount the unit to ceilings, walls and any flat metallic surfaces. Users simply attach the magnetic mounting bracket to the desired surface, then hang the lamp assembly from the bracket.

Energy Consumption Comparison

	<u>Metal Halide</u>	<u>LED</u>
Wattage	175 watts	50 watts
Amp Draw @ 120V AC	1.69 amps	0.42 amps
Amp Draw @ 220V AC	0.92 amps	0.23 amps
Amp Draw @ 240V AC	0.85 amps	0.21 amps
Amp Draw @ 277V AC	0.73 amps	0.18 amps
Amp Draw @ 12V DC	16.77 amps	4.17 amps
Amp Draw @ 24V DC	8.39 amps	2.08 amps
Lamp Life Expectancy	20,000 hours	60,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	\$241.78	\$26.30

Each LED light fixture has the potential to save \$150.00+ per year in electricity alone, not including maintenance costs, operational downtime, reduced productivity, HVAC loads, or carbon footprint. When retrofitting an entire facility with

100s of light fixtures, the return on investment of LED over metal halide becomes evident.

Applications: Temporary illumination, hazardous locations, explosive work sites, flammable facilities, workspace lighting systems and industrial spaces where flammable chemical/petrochemical vapors are 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.

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REV	DESCRIPTION						DATE
A	PRODUCTION RELEASE						07/06/2021
EPL-SL-4-50X-50LED-RT-MBC-EPP- 1523-60DB-50K 							
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Frequently Asked Questions (FAQ)