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LM-SMXB-EPL-30-14-4X150RT-LED-E2E-2KLBS-480V

600W Explosion Proof High Intensity LED Light Plant - 3-Stage 14' to 30' Mast - C1D1 / C2D1 - 480V

Product ID: 302108



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.

LM-SMXB-EPL-30-14-4X150RT-LED-E2E-2KLBS 480V Explosion Proof High Intensity LED Light Plant

Lamp Type: LED
Lamps: (4) 150 Watt LED Fixtures
Total Watts: 600
Total Lumens: 70,000
Mast Length: 14` to 30`
Total Extended Height (w/ Light Heads): 30`
Total Collapsed Height (w/ Light Heads): 14`
Capacity: 300 lbs
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: 2,500 lbs Manual Winch
Mast Cable: 16/3 SOOW Cord
Daisy Chaining: Yes, 2` Input and Output Whips
Base Type: Weighted Cube Mast-Style w/ 1" Thick Steel Base Plate
Mounting: 48" x 60" Base
Transport Dimes (w/ Light Heads): 48"-L x 48"-W x 133"-H
Mast Head: 96" x 2" x 2" - 1/4" Thick
Mobility: 4-corner skid pockets, 4-corner pickeyes

Lamp Specs
Lamp Type: LED
Voltage: 480V
Luminous Efficiency: 116.67 lm/w
Lighting Configuration: 60° or 125°

Quick Summary

Mast Summary
14` to 30`
Steel Construction
Powder Coated Finish
Removable Mast Head
125 mph Wind Resistance
UL 508A
Fold-Over Storage Mechanism
Photo Cell Switch
Junction Box at Top and Base of Mast

LED Lamp Head Summary
Listed for United States and Canada
Class I, Divisions 1 & 2, Groups C,D
Class II, Divisions 1 & 2, Groups E,F,G
Class III
IP67 Rated Waterproof
Multiple Driver Banks
T5 Temperature Rating
80% Lumen Retention after 60,000 Hours

Lamp Adjustment: Vertical and Horizontal Positioning
Color Temp: Cool White - 5000K
LED Drive: 90%
Ambient Operating Temp: -50° C to +65°C
Lamp Life: 60,000+ Hours
Materials: Copper Free Aluminum Housing
Shipping: Common Freight
Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

Special Orders - Special Requirements
Contact us for special requirements

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Made in the USA

The Larson Electronics LM-SMXB-EPL-30-14-4X150RT-LED-E2E-2KLBS-480V explosion proof three-stage light plant provides a safe and effective way for operators to quickly deploy 600 watts of intense lighting to elevations up to thirty feet in hazardous locations. This unit supports the following explosion proof ratings: Class I, Divisions 1 & 2, Groups C, D; Class II, Divisions 1 & 2, Groups E, F, G; and Class III. The light tower features a rotating boom that allows for 360° of rotation, a removable mast head for storing mounted equipment, 4-corner skid pockets for easy transportation, and input/output whips for daisy chaining multiple units. When ordering this product, please choose the preferred voltage and beam configuration.

The LM-SMXB-EPL-30-14-4X150RT-LED-E2E-2KLBS-480V explosion proof three-stage telescoping steel light mast is designed to quickly and safely deploy 600 watts of intense LED lighting in hazardous locations. This light boom can be extended to 30` for maximum area coverage and collapsed/folded over to 14` for applications where a smaller footprint is required. The 480V unit (select the preferred voltage below) comes with four, 150-watt explosion proof LED fixtures at the head of the mast, which is capable of emitting a cool white light with 70,000 lumens and color temperature of 5,000K. The beam configuration of the light tower may either be 60 degrees (for wide flood lighting requirements) or 125 degrees (for extreme wide area lighting requirements).
This explosion proof LED tower features two junction boxes: one at the top of the mast for combined power and one at the base of the mast. Operators may daisy chain multiple units together using 2` input and output whips for additional lighting power. The LM-SMXB-EPL-30-14-4X150RT-LED-E2E-2KLBS-480V is constructed of square steel tubing with a lower section 11.27` in length and 4" by 4" by 1/8" thick, middle section 10.73` in length and 3" by 3" by 1/8" thick, and an upper section 10.63` and 2" by 2" by 1/8" thick. Each section has a 1` overlap minimum. The mast is elevated using an included 2,500 lbs manual winch.

LED Benefits: 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.
Technology: The explosion proof LED light fixture 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.
Fixture Adjustment: Each explosion proof LED lamp is securely fastened to the light boom`s mast head, and each lamp includes an adjustable trunnion U-bracket to help maintain lamp stability within its housing. This trunnion mount bracket allows the light to be vertically adjusted 180°, allowing operators to position the light straight upwards or straight downwards. Each light head can be adjusted independently, providing maximum coverage of the work environment. The trunnion mount is attached to the mast head via a single thru-bolt, allowing for horizontal positioning of each light fixture. This allows operators to cover areas to the side and behind the skid mast tower instead of only in front of the unit.

Tower Base: The tower and assembly is powder coated with glossy blue finish for corrosion resistance and aesthetics. This 3-stage mast features a cube mast-style weighted base and is bolted onto a 1" thick steel base plate. Eight skid pockets on all four corners allow this unit to be picked up from all four sides. 4-corner eyelets for crane transport. A manual 2,500-lb winch is available for deployment.
The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. This light plant system can withstand winds up to 125+ mph when lowered to 14`, and up to 55 mph when fully extended. When elevated to its full upright position, the mast can be rotated a full 360°. By loosening the T-Handle, operators can rotate the mast with easy in either direction. The mast can be positioned in one of four different directions, and locked back in place by re-tightening the T-handle. The mast itself spins freely with ease, and can typically be rotated with a single hand.
Larson Electronics can custom tailor these units to the customer`s requirements with longer sections and larger mounting plates. For example, the LM-25 is another model that reaches to a length of 25 feet, with a 15 foot lower section and a 10 foot upper section and a 4 foot wide upper mounting bracket. We also offer a choice of either the manual 1,000 lbs hand winches included standard or optional electric winches.
Wiring and Plug: The explosion proof LED light plant comes with a 16/3 chemical and abrasion resistant SOOW cord for connection with a compatible power source. Operators may daisy chain several units together for additional lighting power using 2` input and output whips.
Suggested Applications: Temporary lighting, construction sites, and security camera deployment. We can equip this mast with 1000W or 1500W Metal Halide lights or a wide variety of high powered LED lights with comparable power, including the LED10WSA-160, LEDLB-200X2E , LEDLB-160X2E or LEDLB-80x2E .
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.

Frequently Asked Questions (FAQ)