

LM-HA-SMP-50-16X500LTL-LED

65' Fold-Over Light Mast - (20) 500W LEDs - Auto Retract - Designed for Installation on Concrete Pad

Product ID: 267864

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.

LM-HA-SMP-50-16X500LTL-LED Pad Mounted Fold-Over LED Megatower™

Light Mast Specs

Tower Length: 22' to 50'+ (Total Height of 65' w/ 15' of Light Assembly)

Lamp Qty: 20

Materials: Heat Treated 6063B/T5 Aluminum

Finish: Galvanized

Operation: Hydraulic

Voltage: 120/240V 1PH, 240V/120 3PH, 208V/120 3PH, or 480V/277 3PH

Light Head Specs

Lamp Type: LED

Total Wattage: 10,000W (500W per lamp)

Total Lumens: 1,350,000 (67,500 per lamp)

Voltage: Universal - 100-277V AC

Lighting Configuration: Flood Beam Pattern

Mounting: Concrete Pad Mount

Weight: -

Shipping: Common Freight

Shipping Weight: -

Quick Summary

Multiple LED Banks for Heat Dispersion

135 Lumens Per Watt Efficiency

70% Lumen Retention after 80,000 Hours

Switched Breaker System per Lamp Head

IP67 Waterproof LED Fixtures

65' Light Mast

Hydraulic Aluminum Mast

Powered Boom Deployment

High Output LED Lamps

Extreme Area Coverage

Direct Replacement for (20) 1000W MH Light Plants

10,000W LED compared to 20,000W MH

1,350,000 Total Lumen Output

Independently Adjustable Light Heads

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The LM-HA-SMP-50-16X500LTL-LED from Larson Electronics is a Fold-Over LED Light Mast that offers high output LED illumination. This pad mounted fold over 7-stage hydraulic light plant provides a safe and effective way for operators to quickly deploy twenty 500-watt LED light heads to elevations above 50` (ground to mast head), reaching a total height of 65` (with 15` of light head assembly). Equipped with auto retract, this hydraulic light tower folds over, features a hydraulic ram upright assist, hydraulic mast, and high output LED fixtures. The hydraulic controls are mounted at the base of the mast. Two base supports are included with this light mast; one to support the mast while folded over and one to support the mast head and lights. The LM-HA-SMP-50-16X500LTL-LED is a direct replacement for 1000W metal halide light plants.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS

The LM-HA-SMP-50-16X500LTL-LED LED Light Plant is a high power light tower package. This unit is equipped with twenty 500-watt LED lights producing 67,500 lumens each, for a combined total of 1,350,000 lumens of light. This unit includes a hydraulic telescoping light mast which can elevate twenty high output LED lamps to heights above 50`. Equipped with auto retract for automated management of the mast, the hydraulic tower is capable of reaching heights up to 656` with the light head assembly, which measures 15` in height. This mobile floodlight package is ideal for large scale event illumination, construction, mining, and industrial operations.

This telescoping seven stage hydraulic light mast from Larson Electronics is designed to allow operators to quickly and safely deploy up to 10,000 watts of high intensity LED lighting in locations where illumination must be elevated to heights above 50` (from ground to mast head; 65` in total height with 15` light head assembly) for effective coverage. This light boom can be collapsed to 22` for applications where a footprint smaller is required. The tower is constructed of heat treated aluminum tubing with 2.69` foot of overlap per section. The mast is elevated using an included hydraulic ram and extended to its full height using a second hydraulic system.

A 90" wide by 109.5" tall and 2" by 2" by 1/4" thick steel mast head is attached to the upper section of the mast which provides a strong and stable platform for the twenty 500-watt LED light heads.

Lights: The LM-HA-SMP-50-16X500LTL-LED Hydraulic LED Megatower™ from Larson Electronics features twenty [GAU-LTL-500W-LED](#) fixtures that each draw 500 watts, for a total fixture wattage of 10,000 watts. Each module produces 67,500 lumens at a color temperature of 5000K for an impressive lumen total of 1,350,000 lumens which provides operators with a superior lighting solution for even the most challenging areas to illuminate. To ensure even coverage of wide areas, the LED modules used on this hydraulic light plant are configured in Larson Electronics for even distribution pattern.

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.



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)

The above image show a side by side comparison of the WCDE-20-HLM65-20X500LTL-LED-WSM next to a 50' Pneumatic Megatower.

Durability: As well as unparalleled heat control, the LED lights used in the LM-HA-SMP-50-16X500LTL-LED also offer IP67 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +85° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. We recommend these LED lights for use in applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. The heat-sink on the LED modules has been engineered to provide optimum heat dissipation. Each LED module has been sized for proper passive cooling to prevent premature failure of LEDs or color shifting and to eliminate the need for an active cooling system typically associated with high powered LED systems.

Telescoping Boom: The hydraulic telescoping boom is constructed of heat treated aluminum with a powder coated finish and extends above 50' in height from the ground to the mast head and 65' of total height with the light assembly (measures 15' in height). This boom is raised from and lowered to the folded position by a single hydraulic ram and extended or retracted by a second hydraulic system.

Auto Retract: To prevent damage and shaking from strong winds during operation, this LED light tower is equipped with a robust wind monitoring system. When exposed to strong winds, such as 40 mph, the system automatically retracts the mast for safe operation. In a retracted state, operators must re-adjust the height of the mast back to its original height (or another preferred height). This cutting-edge feature is designed to improve safety at industrial work sites.

This light plant can withstand 35 mph winds before auto retract when fully extended, with standard guy wires to the outriggers. When guy wires are applied 60 feet out from the side of the trailer, the LED light tower can withstand 50 mph winds before auto retract. When auto retract is activated, operators must send the mast back to its original position or preferred height setting.

Wiring/Controls: The LED light heads are grouped into banks of four. Each bank in wired into the NEMA 3R breaker control box at the base of the mast. Operators control the light heads via an on/off switched breaker per bank of four light heads. The hydraulics and battery charger are also powered from within this breaker box. The mast elevation is controlled by a push button switch to operate the hydraulic ram allowing operators to raise the mast to the upright position. The vertical deployment is operated by a second push button switch allowing operators to extend it to its full 65' height or retract it to the collapsed height.

Voltage: The LM-HA-SMP-50-16X500LTL-LED is available in several different voltage options. The options are as follows: 120/240V 1PH, 240V/120 3PH, 208V/120 3PH, or 480V/277 3PH. Please make your selection when ordering.

Pad Mount: The entire unit is designed to be mounted onto a dedicated concrete pad. The LM-HA-SMP-50-16X500LTL-LED includes a two piece base. One of the base pieces supports the mast when it is in the folded over position and the other supports the mast head and lights while in the folded over position.

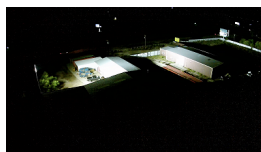
We offer a choice of finishing, equipped light heads, and with or without gensets. These towers can be fitted with Larson Electronics line of high output light heads, or customize the mast head to meet the mounting requirements for your equipment. Optional diesel generators and fuel cells can be equipped from factory, or retrofitted

after purchase.



[Click Images to enlarge.](#)

The above images show a side by side comparison of the light output between our LED light plant and a traditional four lamp metal halide light plant. The left image shows the metal halide light plant raised to 30' and illuminating a 50,000 sq ft work area with four 1000 watt metal halide light fixtures. The right image shows the LM-HA-SMP-50-16X500LTL-LED light plant raised to 50', illuminating the same 50,000 square foot work area with twenty 500 watt LED fixtures. Notice how the color and intensity of the work area is greatly improved when lit up by the LED fixtures.

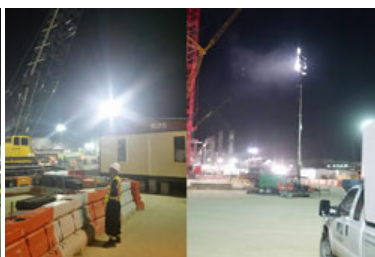


[Click Images to enlarge.](#)

The left image above shows the light mast illuminating a 300,000+ square foot area. The yellow billboard in the image reaches 40 lux, while the fence at the tree line (500' + away from the tower) reaches 35 lux. This image was taken from 50' behind the mast and at 100' above ground level. The image to the right shows the work space 75' in front of the mast, with the entire area work area reaching over 100 lux. The mast was extended to 35'.

The left image above shows the same 300,000+ square foot area being illuminated. In the background you can see a vehicle with their headlights on, barely able to be seen in comparison to the LM-HA-SMP-50-16X500LTL-LED light plant. This image was taken at 80' to the right of the mast and 175' above ground level. The mast was extended to 35'. The image on the right is a Google Earth export of the physical area being illuminated, for scale purposes.

Suggested Applications: Temporary lighting, construction site illumination, outdoor event lighting, job site lighting and any other application that requires a self-contained source of illumination capable of covering a very large area effectively.



[Click Photos to Enlarge](#)

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)





LM-HA-SMP-50-16X500LTL-LED

Product ID: 267864

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LM-HA-SMP-50-16X500LTL-LED-Voltage

Example: LM-HA-SMP-50-16X500LTL-LED-240V.1P

Voltage	
120/240V 1PH	-240V.1P
240V/120 3PH	-240V.3P
208V/120 3PH	-208V.3P
480V/277 3PH	-480V.3P

Links (Click on the below items to view):

- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [Video1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)