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

LM-SMDE-HA30-5S-4X500LTL-6KWDG

1920W Hydraulic LED Light Tower - 8' to 30' - (4) LED Lights, 6kW Diesel Generator -Skid Mount

Product ID: 313102



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-SMDE-HA30-5S-4X500LTL-6KWDG 1,920 Watt LED Light Plant

Genset Specs

Engine: Kubota D1105-BG-ET01
Engine Type: Vertical, liquid-cooled, 4-cycle diesel engine
Engine Speed: 1800 RPM
No. of Cylinders: 3
Generator: Marathon Pancake 6KW 4-Pole Brushless
Voltage: 120/240V Single Phase
Auxiliary Power Supplies: (1) NEMA L14-30R [125/250V], (1) NEMA 5-20R GFCI [125V]
Battery: 12V, Key Start
Fuel Cell Capacity: 39.9 Gallons
Fuel Delivery: Electric
Noise Level: Db level 68 @ 23 ft.

Mast Specs

Height: 8` to 30`
Weight: -
Stages: 5
Materials: Steel, Aluminum
Finish: Powder Coated Finish
Mast Extension Operation: Hydraulics
Mast Rotation Operation: Electric Motor
Outriggers: (4) Retractable
Mounting: 48" x 48" x 53" Carbon Steel Cube Frame - Skid Mount

Quick Summary

8` to 30` Light Mast
Steel/Aluminum Construction
Powder Coated Finish
Removable Mast Head
45 mph Wind Resistance
Hydraulic Operation
(4) 4` Slide-Out Outriggers w/ 1,200lb Jacks
Independently Adjustable Light Heads
Individual Light Switch Circuit Breakers
Dial-in Adjustability per light head
98% Transmission High Purity PMMA Optics
Multiple LED Banks for Heat Dispersion
70% Lumen Retention after 80,000 Hours
IP67 Waterproof LED Fixtures

Light Specs

Lamp Type: LED

Lamp Qty: (4)

Voltage: -

Total Watts: 1,920W

Single-lamp Watts: 480W

Total Lumens: 259,200 lms

Single-lamp Lumens: 64,800 lms

Luminous Efficiency: 135 LPW

LED Color Temperature: Cool White - 5500-6500K

LED Life Expectancy: 80,000 hours

Beam Angle: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood

Optics Efficiency: 98% - PMMA High Transmittance Optics

Ambient Temperature Range: -40°C to +80°C

Materials: Die Cast Aluminum Housing, PMMA Optics

Mounting: Trunnion Mount U-Bracket, Motorized Adjustment

Cross: Beur VTL-3 Light Tower
Options: Length- Mounting-Fixtures/ Call Us for Special Requirements
System Dimensions: 8.8'H x 3.88'L x 3.88'W
System Weight: 2,425 lbs
Shipping: Common Freight

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

This unit is Made In USA - Manufactured in Texas

The Larson Electronics LM-SMDE-HA30-5S-4X500LTL-6KWDG Skid Mount LED Light Plant provides a safe and effective way for operators to quickly deploy 1,920 watts of intense lighting to elevations up to thirty feet. The four 480 watt LED lamps produce a wide spread of intense white light, allowing this unit to effectively cover large work areas with high quality illumination. The light tower features a rotating boom that allows for 360° of rotation, a removable mast head for storing mounted equipment when not in use and a 6 kw diesel generator. The components are mounted to a cube frame with skid pockets and 4-corner pick eyes for easy transportation.

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

The LM-SMDE-HA30-5S-4X500LTL-6KWDG five stage telescoping light mast from Larson Electronics is designed to deploy 1,920 watts of intense LED lighting in locations where elevated illumination is needed for maximum area coverage. This system includes a 30' hydraulic mast, four 480-watt LED lights and a 6kw diesel generator. All system components are secured to a skid base.

Hydraulic Tower: The LM-SMDE-HA30-5S-4X500LTL-6KWDG is designed to allow operators to quickly and safely deploy four LED lights in indoor or outdoor locations with minimal effort. This five-stage mast is capable of reaching heights up to 30 feet for effective coverage and collapsed to 8 feet for storage. Each stage comes with the following measurements: Stage 1- 7.04`; Stage 2- 7.33`; Stage 3- 7.63`; Stage 4- 7.92`; and Stage 5- 8.08`. At full height, this unit can withstand 45 mph winds. Powered using a hydraulics system, the tower is constructed of square steel tubing and lightweight aluminum.

The LM family of telescoping towers feature a proprietary mast guidance system, which provides increased stability during high winds. This light plant system can withstand winds up 45 mph when fully extended. When elevated to its full upright position, the mast can be rotated a full 360°.

The tower and assembly is powder coated with glossy blue finish for corrosion resistance and aesthetics. The mast and controls are secured within a cube-style frame constructed of 2" by 2" by 1/8" thick and measuring 48" wide by 48" long by 53" tall. Four 4` slide out outriggers with 1,200 lbs. manual crank leveling

jacks allow operators to anchor the unit down, providing stability during deployment. Four skid pockets allow this unit to be picked up from all four sides, and four-corner pick eyelets allow for stable deployment via crane operation. A 50" wide and 2" by 2" by 1/4" thick mounting plate is attached to the upper section of the mast which provides a strong and stable platform for the four LED light fixtures.

LED Lights: Four wet area suitable GAU-LTL-500W-LED high output LED fixtures producing a combined total of approximately 259,200 lumens at 1,920 watts are included with this system. The light head contains forty-eight Cree high output LEDs producing 1,350 lumens each, arranged in rows and paired with PMMA high purity optics to produce a well focused 25° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional optics with 10° spot, 38° narrow flood, 60° flood, and 90° wide flood beam spreads. The spot beams are tightly focused and are designed for high elevation mounting to achieve distance, making spot versions ideal for high mast and spot lighting. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights.

Each floodlight is securely fastened to the light boom and each lamp offers motorized adjustment. The lamps are hard wired into a NEMA 3R panel located on the end of the telescoping boom.

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.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units feature individual heat sinks per bank of six LEDs to control heat buildup rather than utilizing a single housing to dissipate heat. This allows for more thorough cooling of the LEDs for extended operating periods. This allows the LEDs to be driven at up to 90% capacity without overheating or visible loss of light output. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 80,000 hours. In addition, should an LED failure occur, these LED flood lights are field serviceable. Each bank of six LEDs can be replaced with the fixture installed. This allows for the tower to stay in operation until repairs can take place, and eliminates the need to remove and disassemble the entire fixture for repairs.

Durability: As well as unparalleled heat control, the GAU-LTL-500W-LED series of LED lights from Larson Electronics 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 +80° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. The housings are formed from die cast aluminum and the optics are high transmission PMMA with 98% light transmittance. The Cree LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,000 hours of use. We use these LED lights for applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.

Technology: The LED light heads on this unit 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. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. Unlike some LED manufacturers where an LED failure in the circuit will cause the entire circuit to

cease operator, each light emitting diode in these light fixtures will operate independently and are not affected by the operate of neighboring diodes. In the event of an individual LED failure, the mating LEDs will continue to operate.

Light Emitting Diodes: 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.

Generator: The diesel engine is a water cooled Kubota that operates at 1800 rpm. This engine features key operated electric starting, a full twelve volt electrical system, automatic low oil pressure and high temperature safety shutoffs, dual fuel filters and easy access oil and radiator drain ports to facilitate maintenance. A 39.9 gallon fuel tank allows the engine to operate for 120+ hours continuously without refueling. The 6,000 watt generator is a single bearing design and produces 120/240 volt current at 60 Hz. The generator uses a four wire hookup system with an external ground allowing for setting up both electrical and mechanical safe grounding systems.

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 GAU-LTL-500W-LED, 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)