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WCDE-6K-4X1000W-MH-M2

30' Mobile Metal Halide Light Tower with Diesel Engine Generator - (4) MH Lights - 6kw Genset, 30 Gal. Poly Fuel Tank

Product ID: 277063

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.

WCDE-6K-4X1000W-MH-M2 Mobile Light Tower
Genset Specs:
Engine: Liquid Cooled
No. of Cylinders: (3)
RPM: 1,800
HP: 12.2 HP Standby, 10.5 HP Prime @ 1,800 RPM
Displacement: 0.95 L
Fuel Type: Diesel
Fuel Cell Capacity: 30 Gallon Poly Fuel Tank w/ Large Diameter Opening
Fuel Consumption (Prime): 0.50 gph (1.89 Lph)
Operating Capacity: 60 Hours
Fill Port: 1/2"
Frequency(Engine/Generator): 60Hz
Brushless Generator Watts: 6 kW Standby
Voltage: 120/240V AC
Voltage Regulation: +/-6% Capacitor
Amps: 50A @ 120V, 25A @ 240V
Receptacles: (1) 30A NEMA L6-30R Twist-lock [240V], (1) 20A NEMA 5-20R GFCI Duplex [120V]
Wet Cell Battery: 440 CCA
Noise Level: 68 dB(A) at 23-ft – Prime Power
Engine Controls: 4-position Keyed Switch - Glow Plugs (Preheat, Off, Run, Start), Hour

Ratings/Features
Made in the USA
Buy American Compliant
TAA Compliant
30' Light Mast
6kW Brushless Genset
30 Gallon Poly Fuel Tank
Leveling Jacks
UV Resistant Steel Enclosure
125 mph Wind Resistance
(4) Metal Halide Lamps
AC and DC Wiring Diagrams

Meter, Automatic Oil/High Temperature Shutdown System

Control Panel Type: Engraved, Aluminum Punched and Anodized Control Panel

Filters: Full Flow Spin-on Oil Filter, Fuel Filter w/ Replacement Element, Dry Type Cartridge Air Filter

Cooling System: Capable of Operating at 120°F

Exhaust: Industrial Engine Exhaust System

Safety: Rubber Vibration Dampeners Isolate Engine/Generator From Frame

Light Mast Specs:

Mast Type: Telescoping

Boom Height: 30'

Rotation: 360° Rotation w/ Locking System

Materials: Tubular Steel w/ Urethane Guides on All Sides of Mast Tubes

Finish: Industrial Black Powder Coat Finish

Operation: (2) 1,500lbs Automatic Self-braking Dual Winches at Ergonomic Height

Cable: 3/16 Aircraft Cable

Locking System: Automatic Locking System in Horizontal Position for Travel

Stages: 3

Light Specs:
Lamp Qty: (4)
Lamp Type: Metal Halide
Total Watts: 4,000W
Single-lamp Watts: 1,000W
Luminous Efficacy: -
MH Life Expectancy: 25,000+ hours
Controls: Individual Flood Light On/Off Switches
Beam Angle: Flood
Protection: Individual Light Circuits w/ 15A Breakers, Ballast Indicator Lights, 30A Start Limit Breaker
Reflector: Oval Aluminum Reflector
Lamp Housing Material: -
Lens: Tempered Glass Lens
Gaskets: Silicone Gasket
Mount: Adjustable Brackets/Tower Mount

Cord: Coiled Mast Cord

Trailer Specs:
Materials: 14 Gauge Steel Enclosure, Stainless Steel Hinge Doors
Finish: UV and Fade Resistant, High Temperature Cured, White Polyester Powder Paint
Mast Support: 3" Square Tube, 1/4" Wall
Split Hitch: 2" Ball Hitch, Pintle Hook Lunette
Tongue: 48" Removable

Transport: Single Lifting Eye, Fork Pockets, Safety Chains w/ Spring Loaded Safety Hooks
Axle: 2,200-lb. Leaf Spring Axle, 40.75" Axle Span
Side Outriggers: 8' 1/4" Span
Leveling Jacks: (4) 2,000-lb Adjustable Leveling Jacks – 4-point Stance; Transport and Lock in Horizontal Position
Lighting: DOT Approved Tail, Side, Brake, and Directional Lights, Recessed Rear Lights

Fenders: Single Wall Polyethylene

Tires: ST175/80D13 – 6 ply

Wheels: (2)

Decals: Multi-lingual Operating/Safety

License Plate Holder: Included w/ Light

Manual Holder: Included w/ Operating Manual

Special Orders - Special Requirements

Contact us for special requirements

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Made in Texas

The WCDE-6K-4X1000W-MH-M2 Mobile Metal Halide Light Tower from Larson Electronics is a towable lighting package powered by a 6kW generator. Equipped with four metal halide lamps, the telescoping light tower extends to a maximum height of 30 feet. All system components are secured to a heavy-duty trailer with DOT-approved lights. This TAA compliant product is made in the USA.

The WCDE-6K-4X1000W-MH-M2 mobile light tower is a reliable solution for deploying wide-area lighting in outdoor, remote locations. This unit is supported by a 6,000 watt generator, which supplies the current to four metal halide lights secured at the top of the tower. The light mast system can provide 60 hours of continuous operation, at a maximum height of 30 feet. This mobile package comes with a license plate holder with lights and a manual holder with an operating manual.

An included generator (6kW standby) provides power for the four metal halide lights and equipment. The diesel engine is a brushless unit with three cylinders. A 30-gallon poly fuel tank allows the engine to operate continuously for up to 60 hours without refueling. The 6,000 watt generator produces 120/240V volt current. There are two receptacles on the unit: (1) L6-30R and (1) GFCI duplex 5-20R.

Light Fixtures: This portable light tower is equipped with four, 1,000-watt metal lamps. The flood lights have oval aluminum reflectors and are protected by tempered glass lens and silicone gaskets for moisture and dust protection. There are individual flood light on/off switches for control. Equipped with ballast indicator lights, each metal halide lamp is protected by a 15-amp breaker. This unit also features a 30-amp start limit breaker.

Telescoping Boom: The three stage steel light mast is designed to allow operators to quickly and safely deploy four metal halide lights in locations where this equipment must be elevated to heights up to 30 feet for effective coverage. This powder coated black light boom can be extended to 30 feet for maximum area coverage and collapsed for applications where a smaller footprint is required. The tower is constructed of square steel tubing and feature urethane guides on all sides of the mast tubes. The mast is elevated using an included dual winch system consisting of 1,500 lb automatic self-braking winches.

A 44" 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 metal halide lights.

The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. When lowered, the mast can withstand winds up to 125 mph. 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.

Housing: All of the operating components are housed within a protective compartment constructed of UV resistant steel and provides airflow for cooling. The design and construction of this enclosure helps this unit operate at a low noise level. This system features stainless steel hinged doors.

Trailer: The system is mounted onto a two-wheel trailer with DOT-approved tail, side, brake and directional lights. A standard two-inch ball coupling and two standard safety chains with spring loaded hooks allow for easy hookup and towing. Four adjustable leveling jacks and side outriggers are accessible for stable deployment. Lifting eye and fork pockets are available on this system.

Applications: This portable light tower is suitable for use in remote locations, such as temporary camps, construction sites, military bases and areas without reliable access to the grid. It can be utilized to power a wide range of tools and equipment.

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.

Summary of Specifications:

Flood Lights

- (4) light fixtures – 1000 watts each – metal halide
- Oval aluminum reflector
- Tempered glass lens
- Silicone gaskets for moisture and dust protection
- Individual floodlight On/Off switches

Light Mast

- 30-ft maximum extension, 3-section, tubular steel
- Urethane guides on all sides of mast tubes
- Industrial black powder coat finish
- Automatic locking system in horizontal position for travel
- 1500-lb automatic self-braking winches
- 360° rotation with locking system
- Coiled mast cord
- Dual winch system located at ergonomic height allowing single person operation
- Equipped with single lifting eye and fork pockets

Generator

- Standby – 12.2 hp @ 1800 rpm
- Prime – 10.5 hp @ 1800 rpm
- 3 cylinder
- 0.95 L displacement
- Fuel consumption (prime) – 0.50 gph (1.89 Lph)
- 60 Hz engine/generator
- Industrial engine exhaust system
- Rubber vibration dampers isolate engine/generator from frame
- Cooling system capable of operating at 120°F
- Full flow oil filter, spin on type
- Fuel filter with replacement element
- Dry type cartridge air filter
- Polyethylene fuel tank with large diameter opening
- 30-gal capacity
- 60-hr run capacity
- 3 ½-in fill port
- Brushless Generator
- 6 kW standby output
- 120/240 VAC – 50/25A
- +/-6% capacitor voltage regulation
- 68 dB(A) at 23-ft – prime power

Engine Controls

- Engraved, aluminum punched and anodized control panel

- Four (4) position keyed switch – glow plugs (preheat, off, run, start)
- Hour meter
- Automatic low oil/high temperature shutdown system

Electrical System/Light Controls

- Individual floodlight circuits with 15A breakers
- Ballast indicator lights
- 30A start limit breaker
- Receptacles- (1) 120 VAC 20 Amp GFCI duplex outlets (Nema 5-20R type), (1) 240 VAC 30 Amp twist-lock outlets (Nema L6-30R type)
- 440 CCA wet cell battery

Wiring

- All wiring is sized to the amperage draw required
- AC and DC wiring diagrams are provided

Trailer

- Steel enclosure – 14-gauge
- UV and fade resistant, high temperature cured, white polyester powder paint
- Stainless steel hinges on doors
- Multi-lingual operating/safety decals
- License plate holder with light
- Manual holder with operating manual
- Mast support – 3-in square tube, 1/4-in wall
- Removable tongue – 48-in long
- Tubular steel frame – 3/16-in wall
- Four (4) 2,000-lb adjustable leveling jacks – 4-point stance
- All jacks transport and lock in horizontal position for storage
- Side outriggers – 8-ft 1/4-in span
- Safety chains with spring loaded safety hooks
- Split hitch; 2-in ball hitch and pintle hook lunette
- Single wall polyethylene fenders
- DOT approved tail, side, brake, and directional lights
- 2,200-lb. leaf spring axle
- ST175/80D13 – 6 ply
- 40.75-in axle span

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Frequently Asked Questions (FAQ)

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**