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WCDE-4-8KW-MHL-220V-NPNTL

8,000 Watt Diesel Generator - 220V 50Hz - 30' Telescoping Tower - (4) 1000W MH Lamps - NATO Pintle

Product ID: 105832

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-4-8KW-MHL-220V-NPNTL Mobile Light Tower

Power: KUBOTA Water Cooled Diesel Engine

Generator: 8000 watts, 220V @ 50Hz, 1800rpm

Lamps: 4- 1000 watt Metal Halides

Total Lamp Watts: 4,000 watts

Fuel: 30 Gallon Fuel tank

Auxiliary Power Supplies): 6-20 Duplex Receptacle, 240V Twist Lock

Boom Height: Up to 30 Feet

Efficiency: 110 Lumens per Watt

Total Lumens: 440,000

Coverage: 7 Acres

Noise Level: Db level 63 @ 23 ft

Mounting: Towable Trailer, 2000lbs Axle, NATO Pintle Hitch

Run Time: 60 Hours on Single Tank of Fuel

Protection

External Grounding

Low Oil, High Engine Temp Auto Shut-Off

Three Point Outrigger System

Hour Meter - Alternator Warning

Individual Light Switch Circuit Breakers

Withstands 65Mph Winds at Full Extension

NATO Pintle Hitch

Special Orders - Special Requirements

Contact us for special requirements

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Made in Texas

The WCDE-4-8KW-MHL-220V-NPNTL mobile light tower from Larson Electronics is a towable lighting package powered by a water cooled diesel

engine turning a single bearing 4 pole generator which produces 8,000 watts and 220V@50Hz. With four 1,000 watt metal halide lamps producing 440,000 lumens this unit will illuminate a 5-7 acre area continuously without refueling for 60 hours.

The WCDE-4-8KW-MHL-220V-NPNTL mobile light tower is a self contained towable light tower package that produces enough light to illuminate an area up to 7 acres in size. This unit contains a water cooled diesel engine powering a 6,000 watt generator, which supplies the current to four 1,000 watt metal halide lamps producing 110,000 lumens each for a combined total of 440,000 lumens of light. This unit can run uninterrupted for 60 hours straight without refueling and includes a telescoping light mast which can elevate the four metal halide lamps to a height of 30 feet. This mobile floodlight package is ideal for emergency services, large scale event illumination, construction, mining, industrial operations and anywhere an extended operation capable mobile lighting solution is needed.

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The WCDE-4-8KW-MHL-220V-NPNTL mobile light tower incorporates a long list of impressive features. 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 shutoff`s, dual fuel filters and easy access oil and radiator drain ports to facilitate maintenance. A 30 gallon fuel tank allows the engine to operate for 60 hours continuously without refueling. The 8,000 watt generator is a single bearing design and produces 220 volt current at 50Hz. The generator uses a four wire hookup system with an external ground allowing for setting up both electrical and mechanical safe grounding systems.



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Lights: The lighting system on this unit is comprised of four 1,000 watt metal halide lamps producing 110,000 lumens of light each attached to the end of the telescoping light boom. These floodlights produce a wide flood light pattern capable of illuminating 7 acres with a combined total of 440,000 lumens of light. Each floodlight is securely fastened to the light boom and each lamp includes a support bracket to help maintain lamp stability within its housing. The lamps are connected to the power source via a water tight male pin connector that attaches to a receptacle located on the end of the telescoping boom.

Controls: The operations system for this unit is a centrally located control panel within the light tower enclosure. Four circuit breaker protected switches allow individual control of the lights while an individual hour meter tracks unit operating time. Also included is an alternator warning light, fuel primer system, preheating switch, 6-20 volt GFCI duplex receptacle for auxiliary power takeoff and a 240V twist lock power receptacle.

Telescoping Boom: The telescoping boom consists of three sections extending up to 30 feet through the use of two manual self braking winches and allows for rotating the lights 360 degrees. One winch is mounted to the trailer tongue and acts to raise the

tower into a vertical position while the other is mounted to the boom and is used to extend the tower to the desired height. The telescoping boom is constructed of galvanized steel to resist rusting and corrosion and is capable of withstanding 65 mph winds when extended to its full height and the stabilizing outriggers are deployed. The stabilizing outriggers are a three point design with one located under the trailer tongue and two on the rear sides of the unit. The two side outriggers are adjustable and include 3,000 lbs swivel jacks for leveling and stabilizing the tower.
Housing: All of the operating components are housed within a protective compartment constructed of 14 gauge steel and designed to provide airflow for cooling. Side doors provide access to the interior while latches provide secure closing while the unit is in use. The design and construction of this enclosure along with the commercial grade muffler system helps this unit operate at a low 63 Db noise level @ 23 ft. The entire unit can be loaded and unloaded onto trucks via forklift sleeves mounted to the outer section of the light mast. The entire unit is mounted onto a two wheel trailer with a 3,500 lbs leaf spring axle. A NATO pintle hitch and two standard safety chains allow for easy hookup and towing.

Engine

Kubota liquid cooled diesel engine
50 Hz engine/generator
Industrial engine exhaust system
Rubber engine mounts isolate engine and generator from trailer frame
Cooling system capable of operating at 120°F ambient temperature
Full flow spin on oil filter
Fuel filter w/ replaceable filter element
Dry type cartridge air filter
30 Gal. Polyethylene fuel tank with 3 1/2" fill port

Trailer

Mast Supports: 5" x 3/16" square tube
Tongue: 47" removable tongue w/ NATO pintle hitch
Chassis: Tubular 2.5" x 3/16" steel chassis
Leveling Jack: (3) 3000lb adjustable leveling jacks
Outriggers: Side outriggers provide 8` 3" span
Side Fenders: 14 gauge steel
Axle: 3500 lb leaf spring axle
Tires: P205/75L15
Safety chains w/ s-hooks
DOT approved tail, side, brake, and directional lights
Recessed rear and side lights
License plat holder w/ license plate lights
51" axle span

Mast

3 section tubular galvanized steel mast - 30` maximum extension
UHMW glide pads on all sides of mast tubes
Horizontal Automatic locking system for transport
1500 lb automatic self-braking winch
359° mast rotation w/ locking system
Retractable coil cord w/ galvanized cord protection housing

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Frequently Asked Questions (FAQ)









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Export Control Classification Number (ECCN): EAR99

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