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WCDE-4X15M-20KW-220V-MKL-CPR

20kW Generator - Water Cooled Diesel Engine - 25' Hydraulic Tower - (4) 1500W MH Lamps - 25 Gal Tank

Product ID: 148892

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-4X15M-20KW-220V-MKL-CPR Mobile Hydraulic Light Tower

Genset Specs:

Engine: Perkins/404D-22G EPA Tier 4
Engine Type: 4-cycle, Water Cooled, Direct Injection, Natural Intake
Engine Speed: 1800 RPM
No. of Cylinders: 4
Rated Power: 20 kW
Rated Standby Output: 22 kW
Generator: Stamford PI144D
Voltage: 220V 60Hz 3PH
Battery 12V @ 60Ah
Fuel Cell Capacity: 25 Gallons
Fuel Delivery: Electric
Noise Level: Db level 65 @ 23 ft

Light Mast Specs:

Mast Type: Hydraulic
Boom Height: Up to 25`
Materials: Aluminum
Operation: Hydraulic
Stages: Four

Protection

20kW Perkins Genset
25 Gallon Fuel Capacity
19+ Hours of Continuous Illumination
External Grounding
Low Oil, High Engine Temp Auto Shut-Off
Deepsea Controller
Four Point Outrigger System
Steel Trailer w/ Industrial Grade Paint Finish
High Output MH Lamps
575,000 Total Lumen Output
Independently Adjustable Light Heads
Individual Light Switch Circuit Breakers
Dial-in Adjustability per light head
110 Lumens Per Watt Efficiency
Withstands 50Mph Winds at Full Extension

Features: Coiled Mast Cord, (1) Lifting Eye and Fork Pockets

Light Specs:

Lamp Type: Metal Halide

Lamp Qty: (4) 1500W Metal Halide Lamps

Total Lumens: 575,000 (110,000 per lamp)

Luminous Efficacy: 95.9 Lm/W

Color Temperature: Neutral White - 4100K

Life Expectancy: 20,000 hours

Coverage: 8 to 9 Acres

Trailer Specs

Materials: 14ga Sheet Steel Enclosure, 12ga Formed Steel Chassis

Hitch: 2" ball hitch

Finish: Industrial Grade Paint

Axle: (1) 2,200 lbs

Suspension: 2,000 lbs Double Eye Leaf Springs

Outriggers: (4) Adjustable Outriggers w/ 2,000 lbs Manual Leveling Jacks

Lighting: DOT Approved tail, side, brake, and directional lights

Wheels: (2) 13" 5x4.5 Steel Rims

Tires: 155R13

Dimensions: 137" x 93.3" x 53.9"

Weight: -

Special Orders - Special Requirements

Contact us for special requirements

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Made in Texas

The WCDE-4X15M-20KW-220V-MKL-CPR mobile hydraulic light tower from Larson Electronics is a towable lighting package powered by a 20 kW generator. With four 1,500 watt metal halide lamps producing 575,000 lumens, this unit will illuminate a 8-9 acre area continuously without refueling for 19+ hours. A Deepsea controller is available for monitoring the real-time status of the IP65-rated unit.

The WCDE-4X15M-20KW-220V-MKL-CPR mobile hydraulic light tower is a metal halide lighting solution for outdoor, remote locations. This unit is supported by a 4-cycle, water cooled, direct injection, natural intake Perkins/404D-22G engine (diesel), which supplies the current to four 1,500 watt metal halide lamps producing 143,750 lumens each for a combined total of 575,000 lumens of light. The light mast can provide 19+ hours of continuous illumination, at extended heights up to 25 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. With engine speeds of 1,800 rpm, the four-cylinder unit is capable of generating 22 kW on standby and 20 kW during prime use. As a low-rpm generator, it operates quieter than 3,600 rpm "throw-away" models. Because 3,600 rpm generators have higher speeds, the units wear out faster and require less copper during operation.

The WCDE-4X15M-20KW-220V-MKL-CPR is designed to support 220V 60Hz. It features three-phase 220V at 48.11 amps, as well as five power outputs and an ATS plug. This unit will automatically shut down in the event of an abnormal condition related to water temperature, engine oil pressure, low coolant, low DEF, overspeed and overcrank. An emergency stop switch allows operators to manually shut down the system.

Lights: The lighting system on this unit is comprised of four 1,500 watt metal halide lamps producing 143,750 lumens of light each attached to the end of the telescoping light boom. These floodlights produce a wide flood light pattern capable of illuminating a minimum of 8 acres with a combined total of 575,000 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: A DSE3110 Deepsea controller provides operators with a wide viewing panel and robust monitoring of the brushless generator. The system displays frequency, battery voltage, runtime and more. A protective feature notifies operators about low oil pressure, high water temperature, over/under voltage and over/under speed. The controller can be used in manual or auto start mode. Configurable timers and alarms provide flexibility and real-time monitoring of the system.

Telescoping Boom: The telescoping hydraulic tower on this unit reaches 25.5` when fully extended and folds to a compact 4.5` for storage and transport. Hydraulic operation allows operators to easily raise, lower, or rotate the mast through a full 359° of movement as needed. A stepping pad allows operators to make adjustments from the ground with ease. The light heads are trunnion mounted to the mast crosspieces using U brackets and can be individually adjusted while the tower is in the retracted position. The telescoping boom is constructed of aluminum to resist rusting and corrosion and is capable of withstanding 50 mph winds when extended to its full height and the stabilizing outriggers are deployed. The stabilizing outriggers are a four-point design with one located under the trailer tongue, two on the sides and one on the back of the unit. The two side outriggers are adjustable and include 2,000 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 wing doors provide access to the interior while latches provide secure closing when the unit is in use. The design and construction of this enclosure helps this unit operate at a low 65 Db noise level @ 23 ft. The entire unit can be loaded and unloaded onto trucks via forklift sleeves mounted to the top section of the light mast. The entire unit is mounted onto a two-wheel trailer with a 2,200 lbs leaf spring axle. A standard two inch ball coupling and two standard safety chains allow for easy hookup and towing.

Applications: This portable generator 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 heavy duty tools and equipment, including laptops, portable machines and mobile devices. The unit’s robust recharging options offer flexibility in environments where access to reliable power sources are severely limited.

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.

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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):

- **SpecSheetRussian**
- **SpecSheetSpanish**
- **HigResPic1**
- **HigResPic2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**