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HAL-WCDE-4X150RT

6000W Water Cooled Diesel Generator - 30' Telescoping Tower - (4) EXP LED Lamps

Product ID: 236323



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.

HAL-WCDE-4X150RT Mobile LED Light Tower

Light Tower/Trailer Specs

Boom Height: Up to 30 Feet

Mounting: Towable Trailer, 3500lbs Axle, 2" Ball

Generator Specs

Power: Water Cooled Diesel Engine
Generator: 6,000 watts, 120/240 volt, 1ph. @ 60hz
Fuel: 15 Gallon Fuel tank
Run Time: Up To 15 Hours on Single Tank of Fuel
Noise Level: Db level 63 Db @23 ft
Power Supplies: 2-120V & 2-240V Class I, Division 1 Receptacles

LED Lamp Specs

Lamp Qty: (4)
Lamp Type: LED
Dimensions: 14"H x 16"W 5"D
Weight: -
Voltage: 100-277 Volts AC, 50/60Hz
Total Watts: 600W
Single-lamp Watts: 150W
Total Lumens: 84,000 lms
Single-lamp Lumens: 21,000 lms
Luminous Efficiency: 166.67 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5600K, 4500K, 3000K
Color Rendering Index: >75 CRI
Beam Angle: 60° or 125°
Lighting Configuration:Flood Pattern
Power Efficiency: >95%

Trailer - Ratings/Approvals

External Grounding
Low Oil, High Engine Temp Auto Shut-Off - Spark arrestor and insulate muffler
Three Point Outrigger System
Hour Meter - Charging indicator
Individual Light Switches
Withstands 65Mph Winds at Full Extension
Explosion Proof Receptacles

LED Lamp - Ratings/Features

Listed for United States and Canada
Class I, Divisions 2, Groups C and D
Class II, Divisions 1 & 2, Groups E,F,G
Class III, Divisions 1 & 2
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to UL 1598
Certified to C22.2 No. 137 Rev 2009
Certified to C22.2 No. 137 Rev 2009
Certified to C22.2 No. 250.0
T5 Temperature Rating
Paint Spray Booth Approved
IEC 60529 Tested
IP67 Rated Waterproof
DLC Approved
Multiple Driver Banks
80% Lumen Retention after 60,000 Hours
Factory Sealed Light Fixture

Power Factor: 0.992
Amperage: 5A @ 120V, 2.5 @ 240V, 2.16 @ 277V
Maximum Inrush Current: 1.65A @ 120V
Ambient Operating Temp Range:-50° C to +65°C
Operating Temp Rating: T5
Housing Material: Copper Free Cast Aluminum
Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone
Mounting: Mast

Special Orders - Special Requirements
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The HAL-WCDE-4X150RT Mobile LED 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 6,000 watts and 120/240V@60Hz. The four 150-watt explosion proof LED lamps included with this unit produce 84,000 lumens and will illuminate a 3-4 acre area continuously without refueling for up to 15 hours.
The HAL-WCDE-4X150RT mobile light tower is a self contained towable LED light tower package that produces enough light to illuminate an area up to 4 acres in size. This unit contains a water cooled diesel engine powering a 6,000 watt generator, which supplies the current for four, Class I, Division 2 150-watt LED lights producing 21,000 lumens each, for a combined total of 84,000 lumens of light. This unit can run uninterrupted for up to 15 hours straight without refueling and includes a telescoping light mast which can elevate the four LED 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.

The HAL-WCDE-4X150RT mobile light tower includes a water cooled diesel engine that produces 20 horsepower 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. The 15 gallon fuel tank is sized to allow the engine to operate for up to 15 hours continuously without refueling.
Generator: The 6,000 watt, 6kva generator is a single bearing 4 pole design with Class F minimum insulation producing 120/240 volt, 1ph. @ 60hz. This hazardous location light tower includes an ignition spark arrestor and heat insulated muffler (fiberglass wrap). The generator uses a four wire hookup system with an external ground allowing for setting up both electrical and mechanical safe grounding systems. The system is equipped with two explosion proof EDC-2023 Class 1, Div. 1, 120 Volt AC plugs rated at 15 amps, and two explosion proof EDC-20232 Class I, Div. I 250 Volt plugs rated at 20 amps.
Lights: The mobile light tower contains four explosion proof LED flood light fixtures. Each unit provides 21,000 lumens of high quality light while drawing only 150 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention.
The explosion proof lights produce illumination with a color temperature of 5600K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. We also offer a 3000K warm white and 4500K natural white color temperature options (longer lead times may apply for non-standard temperatures).
The explosion proof LED light fixtures 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. Each bank contains two LED boards with an individual driver. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.
Controls: The operations system for this unit is a centrally located control panel located within the light tower enclosure. Four Class 1 Division 1 switches allow individual on/off control of the lights while an individual hour meter tracks unit operating time. Also included is a battery charging indicator and alternator failure gauges.

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 comes powder coated to prevent friction and rusting between tower sections. This system 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 stabilizing outriggers with one located under the trailer tongue and two on the rear sides of the unit. The two rear outriggers are adjustable and include 1500 lbs, swivel jacks for leveling and stabilizing the tower.

Housing: All of the operating components are housed with 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 level @ 23 ft.

Trailer: The entire unit is mounted onto a two wheel trailer with a 3,500 lbs leaf spring axle and 15” wheels with protected fenders. A standard two inch ball coupling and two standard safety chains allow for easy hookup and towing. The entire unit can be loaded and unloaded onto trucks via forklift sleeves mounted to the outer section of the light mast. The entire light tower system generator weighs 1850 pounds with shipping dimensions measuring 13 feet long, 8 feet wide and 6 feet tall.

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)