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

HAL-WCDE-220V-4X1000

6,000 Watt 220V Water Cooled Diesel Generator - 30' Telescoping Tower - 4x 1000W Metal Halides

Product ID: 105979

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.

1**HAL-WCDE-220V-4X1000 Mobile Light Tower**

1#000000**Power:** Water Cooled Diesel Engine

1Generator: 16,000 watts, 220 volt, 1ph. @ 50hz

1**Lamps:** 14 - 1000 watt Metal Halides

1**Total Lamp Watts:** 14,000 watts

1**Fuel:** 115 Gallon Fuel tank

1**Power Supplies:**1 (4) 250V 20A Class 1 Division 1 receptacles

1**Boom Height:** 1Up to 30 Feet

1Efficiency:1 110 Lumens per Watt

14**1Total Lumens:**1 440,000

14**1Coverage:** 15 to 7 Acres

14**1Noise Level:** 1Db level 63 Db @23 ft

14**1Mounting:** 1Towable Trailer, 3500lbs Axle, 2" Ball

14**1Run Time:** 1Up To 12 Hours on Single Tank of Fuel

1**Protection**

1External Grounding

1Low Oil, High Engine Temp Auto Shut-Off - Spark arrestor and insulate muffler

1Three Point Outrigger System

1Hour Meter - Charging indicator

1Individual Light Switches

1Withstands 65Mph Winds at Full Extension

1Explosion Proof Receptacles

1**Special Orders - Special Requirements**

1Contact us for special requirements

1**Toll Free:**3 11-800-369-6671

1**Intl:**3 11-903-270-1187

1**E-mail:**1 sales@larsonelectronics.com

110

Made in Texas

The HAL-WCDE-220V-4X1000 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 6,000 watts and 220V 50Hz. The four 1000 watt metal halide lamps included with this unit produce 440,000 lumens and will illuminate a 5-7 acre area continuously without

refueling for up to 12 hours.

#0000002The HAL-WCDE-220V-4X1000 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 for four Class 1 Division 2 1,000 watt metal halide lights producing 110,000 lumens each, for a combined total of 440,000 lumens of light. This unit can run uninterrupted for up to 12 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.

25

The HAL-WCDE-220V-4X1000 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 12 hours continuously without refueling.

2**Generator:** The 6,000 watt, 6kva generator is a single bearing 4 pole design with Class F minimum insulation producing 220 volt 50Hz, single phase. 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 four explosion proof EDC-2023 Class 1, Div. 1, 250 Volt AC receptacles rated at 20 amps.

2**Lights:** The lighting system on this unit is comprised of four Class 1 Division 2 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 a minimum of 5 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. These lamps are Class I, Division 2 groups A,B,C, and D. _blankClick here for more detailed information on the lights used with this tower.

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.

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

Frequently Asked Questions (FAQ)

HAL-WCDE-220V-4X1000

Product ID: 105979

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

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