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

WCDE-6KW-400Y.230.50HZ-30-4X1500W-10TLR

1,600 Watt Light Plant - 6KW Watt Generator - Water Cooled Diesel Engine - 30' 5 Stage Light Tower

Product ID: 244079



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-6KW-400Y.230.50HZ-30-4X1500W-10TLR Mobile Light Tower
Total Weight: +/- 3,200 Lbs

Genset Specs:
Genset: Kubota GL11000TM
Engine: Kubota D722 16.3 HP
Engine Type: Vertical, liquid-cooled, 4-cycle diesel engine
Engine Speed: 3600 RPM
No. of Cylinders: 3
Generator: 6KW 2-Pole Brushless
Voltage: 400Y/20V Three Phase
Battery 12V @ 36aH
Outlets (2) 316R6W British Outlets
Fuel Cell Capacity: 150 Gallons - External Tank w/ Anti-Splash Baffles
Fuel Delivery: Electric
Sound Level: 68 dB - Full load @ 23` away
Cold Weather Package: Glow Plug Factory Included

Light Mast Specs
Tower Length: 8.75` to 30`
Lamp Qty: (4)
Materials: Tube Steel
Finish: Powder Coated
Operation: (2) 2,500lb Manual Crank Winches

Light Head Specs
Lamp Type: Metal Halide
Total Wattage: 1600W (400W per lamp)
Total Lumens: 144,000 (36,000 per lamp)

Features
6KW Kubota Brushless Genset
4-Point Outrigger System
External Grounding
150 Gallon External Fuel Cell
Glow Plugs Factory Installed
Up to 50 Hour Continuous Operation
8.75` to 30` Light Mast
Steel Construction Trailer
Large Area Coverage
144,000 Total Lumen Output
Independently Adjustable Light Heads
Dial-in Adjustability per light head
IP67 Waterproof MH Fixtures
All Equipment Mounted on a 10` x 8` Trailer
Steel Trailer w/ Industrial Grade Paint Finish
Withstands 65Mph Winds at Full Extension
Towable Height Under 13` w/ Light Heads

Efficiency: 90 Lumens per Watt
Lighting Configuration: Flood Beam Pattern - NEMA 5X5
Run Time: Up To 50+ Hours on Single Tank of Fuel

Trailer Specs
Materials: Steel
Trailer Dimensions: 10`-L x 8`-W trailer bed
Hitch: 3" Pintle Hitch
Wiring: 7-Pin Flat
Axles: 5,400 lbs Leaf Springs
Outriggers: (4) Retractable Outriggers - 1,500 lbs jacks
3 year warranty replacement on this light mast. The customer ships the failed light mast to Larson Electronics at their expense. If the failure is a manufacturer defect, we will repair and/or replace the unit.

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

Made in the USA

The WCDE-6KW-400Y.230.50HZ-30-4X1500W-10TLR mobile light tower from Larson Electronics is a towable lighting package powered by a Kubota water cooled diesel engine turning a single bearing 4 pole generator which produces 6 kilowatts and 400Y/230V 3 Phase @50Hz. With four 400 watt metal halide lamps producing 144,000 lumens total, this unit will illuminate a 5-7 acre area continuously without refueling for up to 60 hours.

The WCDE-6KW-400Y.230.50HZ-30-4X1500W-10TLR 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 kilowatt generator, which supplies the current for four 400 watt metal halide lamps producing 36,000 lumens each, for a combined total of 144,000 lumens of light. This unit can run uninterrupted for up to 60 hours straight without refueling and includes a five stage telescoping light mast which can elevate the four 400 watt 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.

Genset: The WCDE-6KW-400Y.230.50HZ-30-4X1500W-10TLR mobile light tower includes a Kubota Lowboy II GL11000TM genset that houses a Kubota D722 diesel engine that powers the 6KW 400Y/230V Phase brushless generator. This genset is liquid cooled and features a single phase generator with electric start ignition. The diesel generator runs at 3600 RPM and is equipped with an EPA/CARB Tier 4 emissions system. A 150 gallon fuel cell sits beside the genset and is equipped with an electric fuel delivery system. The fuel cell is constructed of single a heavy gauge steel single wall frame with internal anti-splash baffles. This genset features key operated electric starting, a twelve volt electrical system, liquid cooling, replaceable dry element air cleaner, and a full enclosure for safe operation and protection against the elements. This engine also features cold weather options to improve performance under cold weather conditions. The unit is equipped with a BS1363 British outlet box for 220V devices.
Lights: The lighting system on this unit is comprised of four 400 watt metal halide lamps producing 36,000 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 7+ acres with a combined total of 144,000 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.
Telescoping Boom: The telescoping boom consists of five sections extending up to 30 feet through the use of two manual self braking winches and allows for rotating the lights 360 degrees. The telescoping boom is constructed of powder coated steel to resist rusting and corrosion and comes powder coated to prevent friction and rusting between tower sections. The tower is constructed of square

steel tubing with a base section 6.6` in length and 6" by 6" by 3/16" thick, lower section 6.78` in length and 5" by 5" by 3/16" thick, middle section 6.93` in length and 4" by 4" by 1/8" thick, upper section 7.08` in length and 3" by 3" by 1/8" thick, and top section 7.58` in length and 2" by 2" by 1/8" thick. Each section has a 1`+ minimum overlap. The mast is elevated via an included 2,500 lbs manual crank winch and is extended to its full height using a second 2,500 lbs manual crank winch with 3/16" galvanized steel cable.

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 four point design with two located in the front sides and two on the rear sides of the unit. The outriggers are adjustable and include 1,500 lbs swivel jacks for leveling and stabilizing the tower.

Wiring/Controls: Each light head is wired into the NEMA 3R breaker control box at the base of the mast. Operators control the light heads via an on/off switched breaker per individual light head.

Trailer: The entire unit is mounted onto a 10` by 8`, two wheel, single axle trailer with a 5,400 lbs leaf spring axle and 15” wheels with protected fenders. A standard 3" pintle hitch 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.

Frequently Asked Questions (FAQ)