

4-Stage Telescoping Light & Equipment Tower - 6kW Diesel Genset - 50 Gal. Fuel Tank - 13-40' Boom

Part #: [WCDE-40-4S-6KW](#)



Made in the USA

The WCDE-40-4S-6KW from Larson Electronics is a towable light and equipment tower powered by a water cooled diesel engine turning a single bearing 4 pole generator which produces 6,000 watts and 120/240V @ 60Hz. The WCDE-40-4S-6KW features a 4-stage, 40 foot light mast that support a 150 lb payload of lighting or other equipment such as cameras.

The WCDE-40-4S-6KW mobile light tower is a self contained towable light tower that contains a water cooled diesel engine powering a 6,000 watt generator which can run uninterrupted for 60 hours straight without refueling and includes a telescoping light mast which can elevate operator provided lighting and other electrical equipment to a height of 40 feet. This mobile light/equipment tower 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 WCDE-40-4S-6KW 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 shutoffs, 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 6,000 watt generator is a single bearing design and produces 120/240 volt current at 60 Hz. 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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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 operator provided lights or equipment while an individual hour meter tracks unit operating time. Also included is an alternator warning light, fuel primer system, preheating switch, 120 volt GFCI duplex receptacle for auxiliary power takeoff and a 240V twist lock power receptacle.



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Telescoping Boom: The WCDE-40-4S-6KW features a telescoping four stage steel light mast that is designed to allow operators to quickly and safely deploy lighting, cameras, and other electrical equipment in locations where this equipment must be elevated to heights up to 40 feet for effective coverage. This light boom can be extended to 40 feet for maximum area coverage and collapsed to 13 feet for applications where a smaller footprint is required. The tower is constructed of square steel tubing with a base section 11.25' in length and 5" x 5" by 3/16" thick, lower section 11.25' in length and 4" x 4" by 1/8" thick, an upper section 11.25' in length and 3" x 3" by 1/8" thick, and a top section 11.75' in length and 2" x 2" by 1/8" thick. Each section has a 15-18" overlap. The mast is elevated using an included 1,200 lbs hand winch with 3/16 inch cable and extended to its full height using a second 1,200 lbs winch.

The telescoping boom is constructed of galvanized steel and is powder coated with glossy blue finish for corrosion resistances and aesthetics 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 rear outriggers are adjustable and include 1,000 lbs swivel jacks for leveling and stabilizing the tower. A 44" wide and 2" by 2" by 1/8" thick mounting plate is attached to the upper section of the mast which provides a strong and stable platform for mounted light fixtures and equipment. When elevated to its full upright position, the mast can be rotated a full 360°. By loosening the T-Handle, operators can rotate the mast with ease in either direction. The mast can be positioned in one of four different directions, and locked back in place by re-tightening the T-handle. The mast itself spins freely, and can typically be rotated with a single hand.

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 2,000 lbs leaf spring axle. A standard two inch ball coupling and two standard safety chains allow for easy

hookup and towing.

Specifications / Additional Information**WCDE-40-4S-6KW Mobile Light/Equipment Tower****Genset Specs:**

Engine: Kubota D1105-BG-ET01

Engine Type: Vertical, liquid-cooled, 4-cycle diesel engine

Engine Speed: 1800 RPM

No. of Cylinders: 3

Generator: Marathon Pancake 6KW 4-Pole Brushless

Voltage: 120/240V Single Phase

Battery 12V

Fuel Cell Capacity: 30 Gallons

Fuel Delivery: Electric

Noise Level: Db level 63 @ 23 ft

Light Mast Specs:

Mast Type: Manual Crank-Up

Boom Height: Up to 40'

Materials: Galvanized Steel

Operation: Manual Hand Crank Winch

Winch: (2) 1500lb, Self-Braking

Stages: Four

Trailer Specs

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

Hitch: 2" Ball Coupler

Finish: Industrial Grade Paint

Axle: (1) 2,000 lbs

Suspension: 2,000 lbs Double Eye Leaf Springs

Outriggers: (3) Adjustable Outriggers w/ 2,500 lbs Manual Leveling Jacks

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

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

Tires: ST175/80/D13

Protection

6KW Kubota Brushless Genset

30 Gallon Fuel Cell

Up to 60+ Hour Continuous Operation

External Grounding

Low Oil, High Engine Temp Auto Shut-Off

Hour Meter - Alternator Warning

Individual Light Switch Circuit Breakers

Steel Trailer w/ Industrial Grade Paint Finish

Three Point Outrigger System

Withstands 65Mph Winds at Full Extension

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