

WCDE-12KW-4X250LTL-LED-2.L09-2.N10

12kW Diesel Generator - 30' Telescoping Tower - (4) LED Lamps - 60 Gal Fuel Cell

Product ID: 315994

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-12KW-4X250LTL-LED-2.L09-2.N10 Mobile Light Tower

Genset Specs:

Engine: Kubota V1505-BG

Engine Speed: 1800 RPM

No. of Cylinders: 4

Total Displacement: 1.498L (91.41 cu. in.)

Intake System: Naturally Aspirated

HP: 18 HP

Fuel Type: #2-D Diesel

Fuel Cell Capacity: 60 Gallons

Fuel Consumption: 0.46Gal/hr @ 25% Load, 0.73Gal/hr @ 50% Load, 1.19Gal/hr @ Full Load

Alternator Current: 30A

Cranking Current: 100A

Generator: Marathon 333CSA3024 12kW Brushless

Voltage: 120/240V Single Phase

Frequency: 60Hz

Continuous Amps: 100A @ 120V, 50A @ 240V

Breakers: (2) 30A, (2) 20A

Receptacles: (2) 30A NEMA L6-30R [250V], (2) 20A NEMA 5-20R GFCI [125V]

Voltage Regulation: AVR Controlled

Voltage Regulator: SE350

Insulation Class: F

Coolant Capacity: 7 Quarts

Protection

Made in the USA

12 KW Kubota Brushless Genset

60 Gallon Fuel Cell

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 LED Lamps

129,600 Total Lumen Output

Independently Adjustable Light Heads

Individual Light Switch Circuit Breakers

Dial-in Adjustability per light head

135 Lumens Per Watt Efficiency

Withstands 50Mph Winds at Full Extension

98% Transmission High Purity PMMA Optics

70% Lumen Retention after 80,000 Hours

Multiple LED Banks for Heat Dispersion

TAA Compliant

Buy American Compliant

Manufactured in Texas

NRTL Certified to UL 1640

Oil Capacity: 6.5 Quarts

Noise Level: -

Light Mast Specs:

Mast Type: Manual Crank-Up

Boom Height: Up to 30`

Materials: Aluminum

Operation: Dual Winch System

Winch: 1,500 lbs - Self-Braking

Stages: Four

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

Light Specs:

Lamp Type: Cree LED

Lamp Qty: (4)

Total Watts: 960W

Single-lamp Watts: 240W

Total Lumens: 129,600 lms

Single-lamp Lumens: 32,400 lms

Luminous Efficiency: 135 lm/w

LED Color Temperature: 4000K or 5000K

LED Life Expectancy: 80,000 hours

Optics Efficiency: 98% - PMMA High Transmittance Optics

LED Drive %: 90%

Power Factor: >97%

Mounting: Stainless Steel Trunnion Mount U-Bracket

Materials: Die Cast Aluminum Housing, Acrylic Optics

Housing Color: Natural Aluminum

Ambient Temperature Range: -40°C to +80°C

Waterproof Rating: IP67

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-12KW-4X250LTL-LED-2.L09-2.N10 mobile light tower from Larson Electronics is a towable lighting package powered by a 12kW generator. With four, 240-watt lamps producing 129,600 lumens, this unit will illuminate a 6 acre area continuously without refueling for extended hours. The light tower extends to a maximum height of 30 feet. A Deepsea controller is available for monitoring the real-time status of the

unit.

The WCDE-12KW-4X250LTL-LED-2.L09-2.N10 mobile light tower is a powerful lighting solution for outdoor, remote locations. This unit is supported by a 12,000 watt generator, which supplies the current to four, 240-watt LED lamps producing 32,400 lumens each for a combined total of 129,600 lumens of light. The light mast can provide hours of continuous illumination, at extended heights up to 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.

An included 12kW generator equipped with an 18HP motor provides power for the LED lights. The diesel engine is a Kubota unit that operates at 1800 rpm. This engine with naturally aspirated intake features AVR controlled voltage regulation and carries a Class F insulation rating. A 60 gallon fuel tank allows the engine to operate continuously for extended periods of time without refueling. The 12,000 watt generator is a single bearing design and produces 120/240 volt current at 60 Hz. Operators may access two 30-amp breakers protecting two 30-amp NEMA L6-30R 250V receptacles and two 20-amp breakers protecting two 20-amp NEMA 5-20R 125V GFCI receptacles.

Lights: The lighting system on this unit is comprised of four, 240-watt LED lamps producing 32,400 lumens of light each attached to the end of the telescoping light boom. These floodlights produce a wide flood light pattern capable of illuminating an area of 6+ acres with a combined total of 129,600 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.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units feature individual heat sinks per bank of six LEDs to control heat buildup rather than utilizing a single housing to dissipate heat. This allows for more thorough cooling of the LEDs for extended operating periods. This allows the LEDs to be driven at up to 90% capacity without overheating or visible loss of light output. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 80,000 hours. In addition, should an LED failure occur, these LED flood lights are field serviceable. Each bank of six LEDs can be replaced with the fixture installed. This allows for the tower to stay in operation until repairs can take place, and eliminates the need to remove and disassemble the entire fixture for repairs.

Durability: As well as unparalleled heat control, the GAU-LTL series of LED lights from Larson Electronics also offer IP67 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +80° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. The housings are formed from die cast aluminum and the optics are high transmission PMMA with 98% light transmittance. The Cree® LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,000 hours of use. We use these LED lights for applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.

Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

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 boom consists of four sections extending up to 30 feet through the use of a dual, self-braking winch and allows for rotating the lights 360 degrees. 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.

Frequently Asked Questions (FAQ)









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Product ID: 315994

Export Control Classification Number (ECCN): EAR99

Options:

WCDE-12KW-4X250LTL-LED-2.L09-2.N10-Color Temp

Example: WCDE-12KW-4X250LTL-LED-2.L09-2.N10-40K

Color Temp	
4000K	-40K
5000K	-50K

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