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

RNT-WCDE-4-20KW-4X500LTL-LED-CPR-MOD1

RENTAL 20kW Generator - Water Cooled Diesel Engine - 25' Telescoping Tower - (4) LED Lamps - 50 Gal Tank

Product ID: 314951



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.

RNT-WCDE-4-20KW-4X500LTL-LED-CPR-MOD1 Mobile Light Tower

Genset Specs:

Engine: Perkins/404D-22G EPA Tier 4
Engine Type: 4-cycle, Water Cooled, Direct Injection, Natural Intake
Engine Speed: 1800 RPM
No. of Cylinders: 4
Rated Power: 20 kW
Rated Standby Output: 22 kW
Generator: Stamford PI144D
Voltage: 120/240V 60Hz 3PH (Primary), 120/240V (Secondary)
Battery 12V @ 60Ah
Fuel Cell Capacity: 50 Gallons
Runtime: 200+ Hours before Refueling
Fuel Delivery: Electric
Noise Level: < 58 dBA @ 30 ft
Gauge: Fuel Level
Safety Features: Low Fuel, Spill Beacon, Engine Shutdown Spill Sensor
Receptacles: (2) 15A 5-15R Single Duplex Configuration [125V], (2) 30A L6-30R Twist-lock [250V]
Integral Spill Containment: Up to 110% of Engine Fluid

Light Mast Specs:

Mast Type: Manual Crank-Up
Boom Height: Up to 25`
Materials: Aluminum
Operation: Dual Winch System

Features

20kW Perkins Genset
50 Gallon Fuel Capacity
200+ Hours of Continuous Illumination
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
208,000 Total Lumen Output
Independently Adjustable Light Heads
Individual Light Switch Circuit Breakers
Dial-in Adjustability per light head
130 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
Rental Options: Monthly, Weekly or Daily

Winch: 1,500 lbs - Self-Braking

Stages: Four

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

Light Specs:

Lamp Type: Bridgelux LED

Total Watts: 1,600 (400W per lamp)

Total Lumens: 208,000 (52,000 per lamp)

Luminous Efficiency: 130 lm/w

LED Color Temperature: Cool White - 5500-6500K

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: 6 to 7 Acres
Protection: Hour Meter, Circuit Breakers (Lights and Main Power)

Trailer Specs:
Materials: 14ga Sheet Steel Enclosure, 12ga Formed Steel Chassis
Hitch: Combo Hitch for 2" Ball and 2.5" Pintle Hook
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

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

This unit is for rentals
Made in Texas

The RNT-WCDE-4-20KW-4X500LTL-LED-CPR-MOD1 mobile light tower from Larson Electronics is a towable lighting package powered by a 20 kW generator. With four, 400-watt lamps producing 208,000 lumens, this unit will illuminate a 6-7 acre area continuously without refueling for 200+ hours. Equipped with a 50-gallon fuel tank and receptacles, a Deepsea controller is available for monitoring the real-time status of the IP65-rated unit. Rental options include monthly, weekly or daily.

The RNT-WCDE-4-20KW-4X500LTL-LED-CPR-MOD1 mobile light tower is a powerful lighting solution for outdoor, remote locations. This unit is supported by a 4-cycle, water cooled, direct injection, natural intake Perkins/404D-22G engine (diesel), which supplies the current to four, 400-watt LED lamps producing 52,000 lumens each for a combined total of 208,000 lumens of light. The light mast can provide 200+ hours of continuous illumination, at extended heights up to 25 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.
With engine speeds of 1,800 rpm, the four-cylinder unit is capable of generating 22 kW on standby and 20 kW during prime use. As a low-rpm generator, it

operates quieter than 3,600 rpm "throw-away" models. Because 3,600 rpm generators have higher speeds, the units wear out faster and require less copper during operation.
Genset: The RNT-WCDE-4-20KW-4X500LTL-LED-CPR-MOD1 is designed to support 120/240V 60Hz. It features three-phase 120/240V (primary/secondary) at 48.11 amps, as well as two 15-amp 5-15R 125V receptacles in a single duplex configuration and two 30-amp L6-30R 250V twist-lock receptacles. The genset features a 50-gallon fuel tank, allowing for 200+ hours of use before refueling. Integral spill containment is available for up to 110% of engine fluid.
Safety features include: low fuel, spill beacon and engine shutdown spill sensor. Operators can monitor fuel consumption via a fuel level gauge. This unit will automatically shut down in the event of an abnormal condition related to water temperature, engine oil pressure, low coolant, low DEF, overspeed and overcrank. An emergency stop switch allows operators to manually shut down the system.

Lights: The lighting system on this unit is comprised of four, 400-watt LED lamps producing 52,000 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 6 acres with a combined total of 208,000 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. An hour meter and circuit breakers provide electrical protection for the lights and main power.
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 Bridgelux® LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,0000 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 25 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/Trailer: 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 58 dBA noise level @ 30 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 combo hitch for 2" ball/2.5" pintle hook 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)