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RNT-WCDE-LE-12KW-4X500LTL-LED-EW-M1

RENT 30' Portable LED Light Tower - 12kW Diesel Generator w/ 50 Gal Tank, (4) LED Lamps, EW - Trailer Mount

Product ID: 285535

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.

Made in Texas - Made in USA, BAA Compliant

RNT-WCDE-LE-12KW-4X500LTL-LED-EW-M1 Mobile Light Tower

Engine Specs:
Engine: Isuzu
Engine Type: Diesel, Liquid Water Cooled, EPA Final Tier 4
Engine Speed: 1800 RPM
No. of Cylinders: 4
Horsepower: -
Rated Prime Power: 12 kW

Fuel System Specs:
Tank Type: Polyethylene Tank
Fuel Capacity: 50 Gallons
Runtime - Hr: -
Fuel Consumption Gal/Hr: -
Exterior Fill Port Diameter: 3.5"

Cooling/Lubrication System Specs:
Air Filter: Dry Type Cartridge
Oil Filter: Full Flow, Spin-on
Service Interval: -

Protection
Made in USA, Made in Texas
BAA Compliant
Buy American Act Compliant
FAR 52.225-2 compliant
12 kW Genset
50 Gallon Fuel Capacity
30' Fold Over Mast
Low Oil, High Engine Temp Auto Shut-Off
Four Point Outrigger System
Steel Trailer w/ Industrial Grade Paint Finish
(4) LED Fixtures
Independently Adjustable Light Heads
135 Lumens Per Watt Efficiency
Withstands 50 Mph Winds at Full Extension
98% Transmission High Purity PMMA Optics
70% Lumen Retention after 80,000 Hours
Multiple LED Banks for Heat Dispersion
Rear Located Engine Controls, Lighting Controls and Receptacles
Lift-up Enclosure w/ Hydraulic Lift Assist Arms for Engine Access and Fuel Tank
Engine Controls and Lighting Controls Located Behind Hinged Door w/ Viewing Window

Generator Specs:

Generator: Brushless

Alternator: Winco

Voltage: 120/240V, 1-phase, 60Hz

Efficiency Rating: -

Amps: -

Voltage Regulation: +/-1% Voltage Regulation

Battery: Wet Cell

Exhaust: CARB (California) Compliant, EPA Tier 4 Final Compliant

Fuel Filter: Included w/ Replaceable Element

Control Specs:

Control Panel Type: External, Illuminated Control Panel w/ Sealed Switches

Switch: 4-position, Key Activated - Off, Run, Glow, Start

Meter: Digital Hour Meter

Light Control: Individual On-Off Switch for Each Light Fixture

LED Breakers: 15A Breakers per Circuit

Convenience Receptacles w/ Individual Breakers Specs:

Main Breaker Capacity: 60A Main Breaker

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

Receptacles: (1) 30A L6-30R NEMA Twist Lock [250V], (1) 30A L14-30R NEMA Twist Lock [125/250V], (2) 20A 5-15R/5-20R GFCI T-slot Duplex Outlet [120V]

Light Mast Specs:

Mast Type: Fold Over

Boom Height: Up to 30`

Boom Rotation: 359° Range of Motion, Adjustable from Ground during Full Extension, Rotation Lock

Materials: Aluminum

Finish: Powder Coated Black

Operation: Electric Winch System

Winch: 1,500 lbs

Cord: Self-retracting Coiled Mast Cord

Light Specs:

Lamp Type: LED

Lamp Qty: (4)

Total Watts: 1,920W

Single-lamp Watts: 480W

Total Lumens: 259,200 lms

Single-lamp Lumens: 64,800 lms

Luminous Efficiency: 135 LPW

LED Color Temperature: Cool White - 5500-6500K

LED Life Expectancy: 80,000 hours

Beam Angle: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood

Optics Efficiency: 98% - PMMA High Transmittance Optics

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

Materials: Die Cast Aluminum Housing, PMMA Optics

Mounting: Trunnion Mount U-Bracket

Waterproof Rating: IP67 LED Lights

Trailer/Housing Specs

Electric Winch

Enclosure Type: Durable, steel vented housing customized to store, protect and maximize functionality of power generation, power storage and light tower components
Enclosure Material: 14ga Sheet Steel w/ Powder Coated Finish
Dimensions: 145" L x 60" W x 88" H
Max Towing Weight: 3,600 lbs
Height Adjustment: Hitch Up and Down
Hitch: Reversible 2" Ball Hitch / 3" NATO Pintle Hitch
Wheelbase: 60"
D Rings: (4) Side of Trailer
Forklift Pockets: (2) Trailer Base for Low Point Access Lifting
Pickeye: (1) Crane Hook Pickeye for High Point Access Lifting
Safety Chains: 7,800 lb Safety Chains with Spring Loaded Safety Hooks for Connecting to Tow Vehicle
Tongue: Removable w/ (1) 1000lb manual crank tongue jack
Outriggers: (4) 2ft Extending Stabilizing Outriggers w/ 1000 lb Manual Crank Jacks
Axle: (1) 5000 lb Axle
Fenders: Steel
Brake System: Electric
Lighting: DOT Approved Tail, Side, Brake, Directional and License Plate Lights
Wheels: (2) 16" Steel Rims
Tires: (2) ST235/80R16 High Capacity Trailer Rated Tires

Shipping Dimensions: -

Weight: -

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
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This unit is for rentals
Made in Texas

The RNT-WCDE-LE-12KW-4X500LTL-LED-EW-M1 Portable LED Light Tower from Larson Electronics is a towable lighting package powered by a 12 kW generator. This system features a 30' telescoping mast with electric winch operation for elevating four LED floodlights. With four 480-watt lamps producing 259,200 total lumens, this unit will illuminate an outdoor area continuously without refueling. This mobile light tower is made in USA (made in Texas) and is BAA compliant.

The RNT-WCDE-LE-12KW-4X500LTL-LED-EW-M1 mobile light tower is a powerful lighting solution for outdoor, remote locations. This unit is supported by a water cooled, diesel generator which supplies the current to four 480-watt LED lamps producing 64,800 lumens each for a combined total of 259,200 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. The system is FAR 52.225-2 compliant, Buy American Act Compliant and BAA compliant.

Generator: With engine speeds of 1,800 rpm, the four-cylinder unit is capable of generating 12 kW prime power during 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.

The RNT-WCDE-LE-12KW-4X500LTL-LED-EW-M1 is equipped with a 50-gallon polyethylene fuel tank. It features single-phase 120/240V, as well as a 4-position key activated switch (off, run, glow and start). This unit will automatically shut down in the event of an abnormal condition related to low oil pressure and high coolant pressure. This system comes with an hour meter and glow plugs.

Receptacles: An included 60-amp main breaker features four receptacles protected by breakers: one 30-amp breaker protecting one 30-amp L6-30R 250V NEMA twist-lock receptacle, one 30-amp breaker protecting one 30-amp L14-30R 125/250V NEMA twist-lock receptacle and two 20-amp breakers protecting two 5-15R/5-20R 120V NEMA T-slot duplex outlet.

Lights: The lighting system on this unit is comprised of four, 480-watt LED lamps producing 64,800 lumens of high intensity light each. Forty-eight high output LEDs

producing 1,350 lumens each are arranged in rows and paired with PMMA high purity optics to produce a well focused 24° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional optics with 10° spot, 38° narrow flood, 60° flood, and 90° wide flood beam spreads. The spot beams are tightly focused and are designed for high elevation mounting to achieve distance, making spot versions ideal for high mast and spots lighting. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights.

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.

Durability: As well as unparalleled heat control, the LED lights from Larson Electronics 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 LEDs help these units achieve resistance to vibration and are rated at 70% lumen maintenance after 80,000 hours of use. We recommend these LED lights for use in 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.

Light Controls: Operators can access individual on/off controls for individual fixtures. These LED floodlights are protected by a 15-amp breaker per circuit.

Telescoping Boom: The fold-over telescoping boom extends up to 30 feet through the use of an electric winch and allows for rotating the lights 359 degrees. The telescoping boom is capable of withstanding 50 mph winds when extended to its full height and the stabilizing outriggers are deployed.

Housing: All of the operating components are housed within a protective compartment constructed of 14ga sheet steel, which is 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 entire unit can be loaded and unloaded onto trucks via forklift skid pockets at the bottom of the system or four D rings. The entire unit is mounted onto a two-wheel trailer with a 2,200 lbs leaf spring axle. A standard reversible 2" ball hitch/3" NATO pintle hitch 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.

Summary of Specifications:

Diesel Fueled Light Tower

Fuel System

• Tank usable fuel volume 50 US gal
• Fuel filter with replaceable element
• Polyethylene tank
• Liquid cooled

Power Generation System

• 60 Hz Engine/Generator
• Electric Brushless
• Up to 12 kW output (Standby)

Electrical System

• Minimum 30A start limit breaker (ensuring no load conditions exist at start-up)
• Individual floodlight/LED circuits with 15A breakers
• Convenience receptacles with individual breakers
• Wet cell battery
• Key activated power switch
• Individual ON-OFF switch for each light fixture
• Automatic shutdown for low oil pressure and high coolant temperature
• Hour meter
• Wiring sized and fused to required amperage draw

Trailer and Housing

• Durable, steel vented housing customized to store, protect and maximize functionality of power generation, power storage and light tower components
• Towing specifications and requirements – 2” ball size, wheelbase 48” to 60” overall dimension of 145” long, 60” wide, 88” high
• Maximum towing weight- 3600 pounds
• 4 per unit “D” rings to secure unit for transport
• Forklift pockets on trailer base for low point access
• Crane hook pocket on mast for high point access
• Brake lights and all applicable lighting and reflective requirements for highway usage
• High capacity trailer rated tires
• Trailer brake package
• Safety chains
• Straight removable tongue for shipment or storage
• Height adjustment hitch up and down and capability to switch to a pintle hook combo hitch set up
• Minimum 4 outrigger jacks for stability and safety

Light Tower

• Light towers that extends to 30’
• Mast has rotation capabilities that can be rotated and locked into position
• (4) 480W LED flood lights per unit. Minimum total of 64,800 initial lumens per unit.

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Frequently Asked Questions (FAQ)









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RNT-WCDE-LE-12KW-4X500LTL-LED-EW-M1

Product ID: 285535

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

RNT-WCDE-LE-12KW-4X500LTL-LED-EW-M1-Rental Length

Example: RNT-WCDE-LE-12KW-4X500LTL-LED-EW-M1-MR

Rental Length	
MONTHLY	-MR
WEEKLY	-WR
DAILY	-DR

Links (Click on the below items to view):

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- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map