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WCDE-6K-4X300W-LED-230V.50HZ

30' Mobile Light Tower with Diesel Engine Generator - (4) 300W LED Lamps - 6kW Genset/26.4 Gal Poly Fuel Tank, 230V and 50 Hz

Product ID: 311766



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-6K-4X300W-LED-230V.50HZ Mobile Light Tower

Genset Specs:

Engine: Yanmar Water Cooled
Engine Speed: 1500 RPM
No. of Cylinders: (3)
Injection: Direct
Fuel Type: Diesel
Fuel Cell Capacity: 26.4 Gallon Poly Fuel Tank
Fuel Consumption: -
Runtime, Full Tank Lights On: -
Alternator: 4P, Class H, IP23 Enclosure, AVR Voltage Regulator
Prime Power: 6.4 kW
Engine Battery: 12V, 66 Ah
Starter Motor: 1.1 kW
Voltage: 230V, 1PH and 50 Hz
Circuit Breaker: -
Noise Level: 62 dBA @ 23'

Ratings/Features

Made in the USA
Buy American Compliant
TAA Compliant
14'-30' Light Mast
26.4 Gallon Poly Fuel Tank
External Grounding
Leveling Jacks
UV Resistant Steel Enclosure
125 mph Wind Resistance
EPA Final Tier 4 Compliant Generator
(4) 300W LED Lamps
Lifting Eye and Fork Pockets
98% Transmission High Purity PMMA Optics
70% Lumen Retention after 80,000 Hours
Multiple LED Banks for Heat Dispersion

Light Mast Specs:

Mast Type: Telescoping, Fold Over
Boom Height: 14' to 30'
Materials: Steel
Operation: (2) 1,000lbs Hand Winches, Electric Optional

Cable: 3/16 Aircraft Cable

Stages: -

LED Light Specs:
Lamp Qty: (4)
Lamp Type: LED
Total Watts: 1,200W
Single-lamp Watts: 300W
Total Lumens: 162,000 lms
Single-lamp Lumens: 40,500 lms
Luminous Efficiency: 135 lm/w
Beam Configurations: 60° Flood
LED Color Temperature: 5000K
LED Life Expectancy: 80,000 hours
Materials: Die Cast Aluminum Housing, PMMA Optics
Housing Color: Powder Coated Black
Ambient Temperature Range: -40°C to +80°C
Waterproof Rating: IP67

Trailer Specs:
Materials: Steel Enclosure - UV Resistant
Hitch: 2" Ball Hitch
Finish: Industrial Grade Paint
Axle: (1) 2,200 lbs
Suspension: 2,000 lbs Double Eye Leaf Springs
Leveling Jacks: (3) 1,200 lbs Tube and Sleeve Leveling Jacks
Lighting: DOT Approved tail, side, brake, and directional lights

Wheels: (2)

Tires: ST175/80D13

Dimensions (Fully Deployed Mast with LED Fixtures and Leveling Jacks): -

Weight (Operating Weight): 1,630 lbs

Special Orders - Special Requirements
Contact us for special requirements

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Made in Texas

The WCDE-6K-4X300W-LED-230V.50HZ Mobile Light Tower from Larson Electronics is a towable LED lighting package powered by a diesel generator. Equipped with four LED lamps offering 40,500 lumens per unit, the telescoping fold-over light tower extends to a maximum height of 30 feet and can be collapsed to 14 feet. All system components are secured to a heavy-duty trailer. This TAA compliant product is made in the USA.

The WCDE-6K-4X300W-LED-230V.50HZ mobile light tower is a reliable solution for deploying equipment in outdoor, remote locations. This unit is supported by a diesel generator, which supplies the current to four LED lights secured at the top of the tower. The light mast system can provide hours of continuous operation, at a maximum height of 30 feet.

An included generator equipped with a water-cooled motor provides power for the four LED lights and equipment. A 26.4 gallon poly fuel tank allows the engine to operate continuously for extended periods of time without refueling. The generator is a brushless design and produces 230V 1PH and 50 Hz.

LED Lights: This system features four 300-watt LED lights for illumination. Each light produces 40,500 lumens of high intensity light while drawing only 300 watts. Twenty-four high output LEDs producing 1,687.5 lumens each are arranged in rows and paired with PMMA high purity optics to produce a 60° flood beam spread. 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.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. 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 is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up

period, this light can be cycled on and off with no reduction in lamp life.
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.
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 WCDE-6K-4X300W-LED-230V.50HZ 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 recommend these LED lights for use in applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.
Telescoping Boom: The telescoping, fold over steel light mast is designed to allow operators to quickly and safely deploy four LED lights in locations where this equipment must be elevated to heights up to 30 feet for effective coverage. This light boom can be extended to 30 feet for maximum area coverage and collapsed to 14 feet for applications where a smaller footprint is required. The tower is constructed of square steel tubing. The mast is elevated using an included 1,000 lbs. hand winch with 3/16 inch cable and extended to its full height using a second 1,000 lbs. winch.
A 44" wide and 2" by 2" by 1/4" thick mounting plate is attached to the upper section of the mast which provides a strong and stable platform for the LED lights. The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. When lowered to 14 feet, the mast can withstand winds up to 125 mph. 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 easy 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 with ease, and can typically be rotated with a single hand.
Housing: All of the operating components are housed within a protective compartment constructed of UV resistant steel and provides airflow for cooling. The design and construction of this enclosure helps this unit operate at a low noise level.
Trailer: The system is mounted onto a two-wheel trailer with DOT-approved LED tail, side, brake and directional lights. A standard two-inch ball coupling and two standard safety chains allow for easy hookup and towing. Three 1,200 lbs tube and sleeve leveling jacks are available for stable deployment. Lifting eye and fork pockets are available on this system.
Applications: This portable LED light tower 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 tools and equipment.
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:

Flood Lights
- (4) 300-watt LED Fixtures
- 40,500 lumens per LED lamp
- 162,000 total lumens

Light Mast
- 14' to 30' telescoping, fold over light mast
- Manual winch operation
- Powder coated steel

Generator
- 6.4 kW diesel generator
- 26.4 gallon poly fuel tank
- 230V, 1PH and 50 Hz

Trailer
- UV resistant steel enclosure
- Single-axle trailer
- 2" ball hitch
- (3) 1,200 lbs tube and sleeve leveling jacks
- Lifting eye and fork pockets
- Tires: ST175/80D13
- DOT approved LED tail, side, brake, and directional lights

Frequently Asked Questions (FAQ)