Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

WCBP-RPS-2X500LTL-LED-M1

1000W Battery Powered LED Light Plant - 15' Telescoping Tower - 2 LED Fixtures - 12 Hour Runtime

Product ID: 264945

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: WCBP-RPS-2X500LTL-LED-M1

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.

WCBP-RPS-2X500LTL-LED-M1 Mobile LED Light Plant

LED Light Specs:

Lamp Type: Cree® LED
Total Watts: 1,000 (500W per lamp)
Total Lumens: 120,000 (60,000 per lamp)
Luminous Efficiency: 120 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: 3 to 4 Acres
Battery Recharge Time: 6 Hours

Features

Withstands 65 MPH Winds at Full Extension
Up to 12 Hour Continuous Operation
High Output LED Lamps
Extreme Area Coverage
Direct Replacement for (2) 1000W MH Light Plants
1,000W LED compared to 2000W MH
120,000 Total Lumen Output
Dial-in Adjustability per light head
98% Transmission High Purity PMMA Optics
Multiple LED Banks for Heat Dispersion
120 Lumens Per Watt Efficiency
70% Lumen Retention after 80,000 Hours
IP67 Waterproof LED Fixtures
Steel Trailer w/ Industrial Grade Paint Finish
Independently Adjustable Light Heads
Three Point Outrigger System

Light Mast Specs:

Mast Type: Manual Crank-Up

Total Unit Weight: 2,500 lbs
Boom Height: Up to 15'
Materials: Galvanized Steel
Operation: Manual Hand Crank Winch
Winch: (2) 1500lb, Self-Braking
Stages: Three

Trailer Specs
Materials: Plastic Enclosure, 12ga Formed Steel Chassis
Hitch: 2" Ball Coupler and 3" Pintle Hitch
Finish: Industrial Grade Paint
Axle: (1) 2,000 lbs.
Suspension: 2,000 lbs. Double Eye Leaf Springs
Outriggers: (4) 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

Dimensions: 70"T x 160"L x 60"W
Weight: 2,200 Lbs

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

Made in the USA

The WCBP-RPS-2X500LTL-LED-M1 mobile light tower from Larson Electronics is a towable, self-contained LED light plant powered by six 12 V 250 aH 8D batteries. The two 500 watt LED lamps included with this unit produce a combined total of 120,000 lumens, which can illuminate a 3-4 acre area. This 1,000 watt LED lighting package is a direct replacement for 4,000 watt metal halide light plants. This trailer mounted light tower and battery set comes with a 120 V or 240 V battery charger and will run continuously for up to 12 hours on a single charge and recharge in 6 hours after the battery is depleted.

The WCBP-RPS-2X500LTL-LED-M1 mobile light tower is a self-contained towable light tower package that produces enough light to illuminate an area up to 4 acres in size. This unit contains six 12V 250aH 8D batteries, which supplies the current to two 500 watt LED lamps producing 60,000 lumens each for a combined total of 120,000 lumens of light. This unit can run uninterrupted for 12 hours straight on a single charge and includes a telescoping light mast which can elevate the two LED lamps to a height of 15 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.



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Lights: The lighting system on this unit is comprised of two 500 watt LED lamps producing 60,000 lumens of light each attached to the end of the telescoping 15` light boom. These floodlights

produce a wide flood light pattern capable of illuminating 4 acres with a combined total of 120,000 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.

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.

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.

Telescoping Boom: The telescoping boom consists of three sections extending up to 15 feet through the use of two manual self braking winches and allows for rotating the lights 360 degrees. One winch is mounted to the trailer tongue and acts to raise the tower into a vertical position while the other is mounted to the boom and is used to extend the tower to the desired height. The telescoping boom is constructed of galvanized steel 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.

Housing: All of the operating components are housed within a protective compartment constructed of recyclable LMDPE (linear medium density polyethalene) plastic. This material is extremely corrosion resistant and retains its orignal appearance even after years of use. The enclosure is high impact crack resistant and retains resale value for longer than metal counterparts while also minimizing environmental impact. The highly durable plastic material is fully UV stabilized, contains long term antioxidants and is resistant to both high and low temperatures. The plastic enclosure of the WCBP-RPS-2X500LTL-LED-M1 is significantly lighter than comparable metal enclosures while offering a more attractive appearance. A vertical lift door provides access to the interior while latches provide secure closing while the unit is in use. 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, three inch pintle hitch and two standard safety chains allow for easy hookup and towing.

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.

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Frequently Asked Questions (FAQ)

There are no Faqs



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