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SPLT-.9K-LM30-WG.04-4X100LTL-AT-BC-M1

Solar Light Tower - 30' Tower - 7.5' Trailer - (3) Panels, (4) LED Lamps - (8) 250aH Batteries - Wind Generator

Product ID: 278762

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.

SPLT-.9K-LM30-WG.04-4X100LTL-AT-BC-M1 Trailer Mounted 3-Stage Light Tower

Light Mast Specs

Tower Length: 13.5` to 30`
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (1) 1,000lbs Hand Winch
Cable: 3/16" Galvanized Aircraft Cable

Solar Specs

Panes: (3) 300 Watt panels
Method of Deployment: Slider
System Voltage: 24 Volts
Battery Bank: (8) 250aH Deep Cycle AGM Batteries
Battery Capacity: 1,000aH Total / 500aH Usable
Rapid Battery Chargers: (1) 240V, (1) 24V DC
Runtime: 72 Hours Continuous-run Battery Capacity Backup in Case of Emergency

Wind Generator Specs

Dimensions: 9.44" x 25.59" x 5.7"
Rotor Diameter: 44.1"
Voltage: 12V

Quick Summary

13.5` to 30` Light Mast
Steel Construction
Powder Coated Finish
Removable Mast Head
(5) 1,000lb Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
(3) 300 Watt Solar Panels w/ Sliders
Fully Solar, No Fuel Needed
Waterproof/Vapor Proof Lamps
50,000+ Hour LED Life
IP67 Waterproof Lamps
Rapid Battery Chargers
Auto Timer for Lights
Weatherproof Wind Generator

Watts: 400W

Amps: 27A

Blades: 3

Minimum Wind Speed: 7 mph

Maximum Wind Speed: 45 mph

Protection: Overspeed, Overcharge

Materials: Cast Aluminum, Carbon Fiber Composite

Finish: Powder Coated

LED Lamp Specs

Lamp Qty: (4)
Lamp Type: CREE LED
Total Watts: 400W
Single-lamp Watts: 100W
Total Lumens: 54,000 lms
Single-lamp Lumens: 13,500 lms
Luminous Efficacy: 135 lm/w
LED Life Expectancy: 80,000+ hours
Color Temp: 3000K, 4000K, 5000K, 6500K
Color Rendering Index: >90
Beam Angle: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, 90° Wide Flood, 120° Wide Flood
Lighting Configuration: Flood Beam
Settings: Auto Timer for Day/night, Motion or Set Timer - Manual On
Ambient Temp Range: -40°C to +80°
Lamp Housing Material: Die Cast Aluminum Housing, PMMA Optics
Lamp Lens Material: Polycarbonate
Mount: Tower

Trailer Specs

Materials: Powder Coated Steel

Trailer Dimensions: 7.5`L` x 7`W trailer bed - 10.75` total length

Pintle Hitch: Lunette Ring

Tongue: Removable Towing Tongue for a 4.5' x 7.5' Footprint

Lifting: Forklift Pockets and Tie Down Rings

Wiring: 7-Pin Flat
Axle: 3,500lb

Suspension: 3,500 Lb 4-Leaf Double Eye Springs

Outriggers: (5) Manual Crank Leveling Jacks

Wheels: (2) 15" 5x4.5 Steel Rims

Tires: ST205/75/D15 H188
Weight: +-600 lbs

Shipping: Common Freight

Shipping Dimensions: 8`-L x 8`-W x 12`-H

Shipping Weight: +-600 lbs

Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

Special Orders - Special Requirements

Contact us for special requirements

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The Larson Electronics SPLT-.9K-LM30-WG.04-4X100LTL-AT-BC-M1 solar powered LED light tower provides a safe and effective way for operators to quickly deploy intense LED illumination to elevations up to thirty feet. This solar light plant features a telescoping light tower that folds over for easy transportation, a rotating boom that allows for 360° rotation and a removable mast head for storing the four LED light fixtures when not in use. The unit features three 300-watt solar panels, a 400-watt wind generator and a deep cycle AGM battery bank. The entire assembly is mounted onto a 7.5` single axle trailer, allowing operators to transport this solar light tower from location to location.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS

This solar light tower includes three solar panels, wind generator, solar charging system, deep cycle AGM battery bank, rapid battery chargers and manual crank up mast mounted on trailer with outriggers. The 0.9 kW solar generator system offers 72 hours of continuous-run battery capacity back-up in case of emergency. This system delivers 24 volts for lighting mounted atop the 30` telescoping light mast.

Light Mast: This telescoping three stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy four LED light heads in locations where this equipment must be elevated to heights up to 30` for effective coverage. This light boom can be extended to 30` above the trailer floor for maximum area coverage, and collapsed to 13.5` for applications where a smaller footprint is required. The tower is constructed of square steel tubing with a base section 6.6` in length and 6" by 6" by 3/16" thick, lower section 6.78` in length and 5" by 5" by 3/16" thick, middle section 6.93` in length and 4" by 4" by 1/8" thick, upper section 7.08` in length and 3" by 3" by 1/8" thick, and top section 7.58` in length and 2" by 2" by 1/8" thick. Each section has a 1`+ overlap. The mast is extended to its full height using an included 1,000lb rated hand winch with 3/16" galvanized steel cable.

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 equipped LED light fixtures. 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 positions, and locked back in place by re-tightening the T-handle. The mast itself spins freely with easy, and can typically be rotated with a single hand. The LM series of towers are powder coated with glossy blue finish for corrosion resistances and aesthetics.

The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. Five 1,000 lbs hand crank leveling jacks are used for leveling. The jacks can be leveled by hand crank or attachment provided for power drills. These outriggers can be extended 2` out from the side of the trailer for added stability. When lowered to 13.5`, the mast can withstand winds up to 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.



44" Mast Head for mounting lights and equipment
Click Image to Enlarge



Mast folds over for transportation and when not in use
Click Image to Enlarge

LED Light Fixtures: This solar light plant is equipped with four LED fixtures. Each unit produces 13,500 lumens of high intensity light while drawing only 100 watts. Nine CREE® high output LEDs producing 1,500 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° and 120° 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.

LED Technology: 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.
Durability: As well as unparalleled heat control, the 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.
Lamp Control: Each lamp can be powered on individually, allowing operators to power one lamp or all four lamps at a single time to fit the required illumination requirements. An equipped automatic timer for day/night sensor, motion and timed settings can be configured for specific operations. Manual on/off is also possible.

Solar Panel Assembly: This unit is comprised of three 300-watt solar panels, generating a total maximum output of 0.9 kW. The panels are mounted securely on a sliding assembly. During deployment, the top solar panels slide out to form a three-panel array for maximum exposure to sunlight. The panels are wired to the solar charger control box which manages the charging system. When in use, the four solar panels are angled at 45° to capture the intensity of the sun for optimized light intake.
Batteries: The solar unit contains a battery bank that consists of eight, 250aH deep cycle 12V AGM batteries for a 1,000aH battery bank (500aH usable) when wired for 24V system voltage.
Battery Charger: This system comes with two rapid battery chargers (240V and 24V DC), which can be plugged into a local wall outlet during use, such as prior to deployment or when local power is available at the remote site.
Wind Generator: The SPLT-.9K-LM30-WG.04-4X100LTL-AT-BC-M1 contains a 400-watt wind generator, which can be used to charge the batteries in windy conditions. The compact turbine is equipped with three, carbon fiber blades and features overspeed protection. For best results, the unit should be exposed to a minimum wind speed of seven mph and a maximum wind speed of 45 mph. This weatherproof wind generator comes with a charge controller that automatically shuts down the unit, when the batteries are in a fully charged state.
Component Control Center: All the electrical components are encapsulated in a NEMA 3R job box that is bolted to the trailer. Since most of these components are not rated for high heat, our component cooling system circulates air within the job box at 1400 CFM when the ambient temperature exceeds 90 degrees Fahrenheit. The job box that contains the component control system includes locks for security purposes.
Trailer Assembly: The entire assembly is mounted to a 7.5` by 7`, single axle trailer via six 1/2" anchor bolts. The two wheel, powder coated steel trailer is equipped with 3,500 lbs axle and leaf springs with 15" trailer tires. Lunette ring pintle pitch, two standard safety chains, and 7-pin flat trailer plug allow for easy hookup and towing. Forklift pockets and tie down rings on the trailer are available for lifting or shipping. The trailer tongue can be removed for long term deployment and a 4.5` x 7.5` footprint. A rugged and waterproof job box is included, safely secured to the trailer. Five outriggers allow operators to level the trailer and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.

Applications: Remote work locations, construction sites, military bases, camping sites, outdoor events, security applications, emergency services, outdoor lighting, portable lighting and more.

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)

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**