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SPLT-.53K-LM30-6XWP500-TLR7-GC

580 Watt Solar Light Tower - 30' Light Tower - 7.5' Trailer - (6) 50 Watt LED Lamps - GC

Product ID: 305535

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-.53K-LM30-6XWP500-TLR7-GC 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: (2) 265 Watt panels
Method of Deployment: Fixed Mount
System Voltage: 12V
Battery Bank: (6) Lithium-ion 40aH Batteries
Battery Capacity: 240 aH Total / 240 aH Usable
Grid Charger: Included

LED Lamp Specs
Lamp Type: CREE LED
Total Watts: 300 (50W per lamp)
Total Lumens: 30,000 (5000 per lamp)
Luminous Efficacy: 100 lm/w
LED Life Expectancy: 50,000+ hours
Color Temp: 5600K, 4000K, or 3000K
Color Rendering Index: 80
Beam Angle: 60° Vertical, 75° Horizontal
Lighting Configuration: Flood Beam
Ambient Temp Range: -25°C to +60°
Lamp Housing Material: Cast Aluminum

Quick Summary
13.5` to 30` Light Mast
Steel Construction
Power Coated Finish
Removable Mast Head
(4) 1,000lb Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
A-Frame for mounted (2) 265 Watt Solar Panels
Fully Solar, No Fuel Needed
Waterproof/Vapor Proof Lamps
50,000+ Hour LED Life
Lamps ETL Approved for Wet Locations
IP68 Waterproof Lamps

Lamp Lens Material: Polycarbonate

Trailer Specs

Materials: Steel

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

Hitch: 2" Ball Coupler

Wiring: 7-Pin Flat

Axle: 3,500lb

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

Outriggers: (4) 1,000 Manual Leveling Jacks

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

Tires: ST205/75/D15 H188

Weight: +-650 lbs

Shipping: Common Freight

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

Shipping Weight: +-650 lbs

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

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics SPLT-.53K-LM30-6XWP500-TLR7-GC solar powered LED light tower provides a safe and effective way for operators to quickly deploy 300 watts of intense LED illumination to elevations up to thirty feet. This solar light plant features a telescoping light tower that folds over for easy transportation, features a rotating boom that allows for 360° of rotation, and a removable mast head for storing the four LED light fixtures when not in use. This unit features two 265 watt solar panels and a 240 aH capacity lithium-ion battery bank. The entire assembly is mounted onto a 7` 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

Solar Powered Light Tower: This solar light tower includes two solar panels, solar charging system, battery bank and manual crank up mast mounted on trailer with outriggers. This 0.53KW solar generator system replenishes 350 amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. This system delivers 120 volts for lighting mounted atop the 30` telescoping light mast. A grid charger is included with this system. All lithium-ion batteries are locked in a cabinet.

Light Mast: This telescoping five stage steel light mast from Larson Electronics' is designed to allow operators to quickly and safely deploy the 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. Four 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.

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LED Light Fixtures: This solar light plant is equipped with six of Larson Electronics` LEDWP-500 high output LED light fixtures. The LEDWP-500 consists of four 12.5 watt LEDs housed within a waterproof aluminum housing that is powder coated for added durability and resistance to corrosion. The housing incorporates integral cooling fins for efficient heat dissipation and increased LED longevity. The LED lamp assembly is protected by a shatterproof polycarbonate lens which is secured to the housing with a waterproof seal. Mounting hardware for the LEDWP-500 consists of a stainless steel coated bracket and stainless steel screws to provide secure mounting and resistance to rust and corrosion. The mounting assembly provides for 360/180 degrees of rotation and tilt to allow the user to position the unit as desired once mounted.
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.
Lamp Control: Each lamp is grouped into banks of two, allowing operators to power one bank or all six lamps at a single time to fit the required illumination requirements. An equipped dusk-to-dawn day/night sensor allows for operation of the light configuration set within the the control center.

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Solar Panel Assembly: This unit is comprised of two 265-watt solar panels, generating a total maximum output of 0.53 KW. The panels are mounted to a stationary assembly. The panels are wired to the solar charger control box which

manages the charging system. The two solar panels are mounted to a frame angled at 45° to capture the intensity of the sun for optimized light intake.
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 trailer is equipped with 3,500 lbs axle and leaf springs with 15" trailer tires. A standard 2" ball coupling, two standard safety chains, and 7-pin flat trailer plug allow for easy hookup and towing. The trailer tongue can be removed for long term deployment. A rugged and waterproof job box is included, safely secured to the trailer. Four outriggers mounted to the corners of the trailer allow operators to level the trailer, and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.

Frequently Asked Questions (FAQ)