

300W Solar Light Tower - 30' Light Tower - 7.5' Trailer - (6) 50W Lamps - Backup LPG Generator

Part #: SPLT-.53K-LM30-6XWP500-ISPG-TLR7



The Larson Electronics SPLT-.53K-LM30-6XWP500-ISPG-TLR7 solar powered LED light tower with instant start backup propane generator 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 six LED light fixtures when not in use. The unit features two, 265-watt solar panels and a 200-amp capacity 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

Solar Powered Light Tower: This solar light tower includes two solar panels, solar charging system, battery bank, backup instant start propane generator and manual crank up mast mounted on trailer with outriggers. The 0.53KW solar generator system replenishes amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. This system delivers 24 volts for lighting mounted atop the 30' telescoping light mast.

Backup Generator: The SPLT-.53K-LM30-6XWP500-ISPG-TLR7 comes equipped with a 3500W backup instant start propane generator to power the lights when sufficient sunlight is not available. In order to ensure that the 50% threshold on the batteries is controlled, this solar trailer includes a system of min/max voltage sensors and relays that monitor the voltage produced by the batteries and will automatically power on the propane generator when the battery capacity falls below 50%. This protects the batteries from failure. The propane generator will run all night on a single tank of gas. The generator also includes ground fault protection.

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 footprint smaller 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.



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 six of Larson Electronics' LEDWP-500 high output LED light fixtures. During use, the 300-watt lighting system offers 30,000 lumens of intense illumination with a color temperature rating of 6500K and a CRI rating of 75. The LEDWP-500 consists of four high output 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. A 1/2" waterproof connector provides a secure and sealed power connection point and rounds out this unit's weather resistant construction.

Mounting hardware for the LEDWP-500 consists of a stainless steel black coated bracket and stainless steel screws to provide secure mounting and resistance to rust and corrosion. The mounting assembly provides for 380/180 degrees of rotation to allow the user to position the unit as desired when 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 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 dusk-to-dawn day/night sensor allows for autonomous operation of the light configuration set within the the control center.

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.

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.

Specifications / Additional Information**SPLT-.53K-LM30-6XWP500-ISPG-TLR7 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****Panels:** (2) 265 Watt panels**Method of Deployment:** Fixed Mount**System Voltage:** 24 Volts**Battery Bank:** (4) 6V 200aH batteries**Battery Capacity:** 200aH Total / 100aH Usable**LED Lamp Specs****Lamp Qty:** 6**Lamp Type:** LED**Total Watts:** 300W**Single-lamp Watts:** 60W**Total Lumens:** 30,000 lms**Single-lamp Lumens:** 5,000 lms**Luminous Efficacy:** 100 Lm/w**LED Life Expectancy:** 50,000+ hours**Color Temp:** Cool White - 6500K**Color Rendering Index:** >75**Beam Angle:** 60° Flood**Beam Size (per Lamp):** 150' x 60'**Lamp Housing Material:** Cast Aluminum**Lamp Lens Material:** Polycarbonate**Mount:** Adjustable Brackets/Tower Mount**Trailer Specs****Materials:** Steel**Quick Summary**

13.5` to 30` Light Mast

Steel Construction

Powder Coated Finish

Removable Mast Head

(4) 1,000lb Outriggers

125 mph Wind Resistance

Manual or Optional Electric Operation

A-Frame 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

3500W Backup Instant Start Propane Generator

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 Crack Leveling Jacks

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

Tires: ST205/75/D15 H188

Weight: +-1500 lbs

Shipping: Common Freight

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

Shipping Weight: +-1800 lbs

Options: Length- Mounting-Fixtures/ Call Us for Special Requirements **E-mail:** sales@larsonelectronics.com

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Links (Click on the below items to view):

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