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## SPLT-.53K-LM30-1XN3B-PW-NB-TLR7

# Portable Solar Light Tower - 30' Mast - 7.5' Trailer - (1) Junction Box - No Batteries

**Product ID: 144518**



**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-LM30-1XN3B-PW-NB-TLR7 Trailer Mounted Solar Generator Light Mast**

**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
**Mast Cable:** 3/16" Galvanized Aircraft Cable
**Cable Sheath: Sealtight Coiled Tubing**

**Solar Specs**

**Panels: (2) 265 Watt panels**
**Method of Deployment: Fixed Mount**
**System Voltage: 12V or 24V**
**Battery Bank: Customer Provided - Accepts up to (2) 8D Batteries**
**Battery capacity: -**

**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 Crack Leveling Jacks
**Wheels:** (2) 15" 5x4.5 Steel Rims
**Tires:** ST205/75/D15 H188
**Weight:** +-600 lbs

**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 for mounted (2) 265 Watt Solar Panels
Fully Solar, No Fuel Needed

**Special Orders- Requirements**

Contact us for special requirements

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**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

**Toll Free:** 1-800-369-6671

**Intl:** 1-214-616-6180

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## Made in the USA

**The Larson Electronics SPLT-.53K-LM30-1XN3B-PW-NB-TLR7 solar powered LED light tower provides a safe and effective way for operators to quickly deploy cameras, security devices, and other equipment 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 storage when not in use. This unit features two 265 watt solar panels.**

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

This trailer mounted light mast with solar generator has a 12" x 12" x 6" junction box mounted at the top of the mast for connecting cameras and other devices. This junction box is ideal for mounting security cameras for a 360° field of view along with other electrical devices for each operator`s specific needs. The top mounted junction box is mounted to the mast head via a half-moon shaped mounting plate. External sealtite coiled tubing runs around the mast to allow operators to run Ethernet cable to the junction box at the top of the mast. The tubing connects the junction box and base solar component box together. The entire assembly is mounted onto a 7.5` single axle trailer, allowing operators to transport this portable solar light tower from location to location.



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**Solar Powered Light Tower:** This solar light tower includes two 265 watt solar panels, solar charging system, battery bank and manual crank up mast mounted on trailer with outriggers. This 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 12 volts or 24 volts for equipment mounted atop the 30` telescoping light mast.

**Light Mast:** This telescoping five stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy a variety of equipment in locations where it must be elevated to heights up to 30` for effective coverage. This light mast 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. TThe 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. Junction boxes are mounted at the top of the first stage and at the very top of the mast for equipment setup, connection, and deployment.
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. A half-moon shaped mounting plate on the top of the mast head provides a secure mounting platform for the NEMA 3R 12" x 12" x 6" junction box, where operatores can mount cameras, indicator lights, and route electrical cabling. 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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**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. A 12" by 12" plate allows operators to mount user provided equipment within the job box. This control center houses the operator provided battery bank, which is designed to hold up to two 8D batteries. A 45 amp Morningstar charge controller charges the batteries from the power provided by the solar panels.
**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)