

Portable Solar Tower - 16' Mast - (2) 165W Panels, (2) 12V 250aH Batteries, Timer - NEMA 3R

Part #: [SPLT-V5-.33K-LM16.2S-500AH-ACC-AT-NYC](#)



Made in the USA

The Larson Electronics SPLT-V5-.33K-LM16.2S-500AH-ACC-AT-NYC 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 16 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 165 watt solar panels, a 500aH battery bank, an industrial timer and remote power monitoring capabilities. The entire assembly is mounted onto a single axle trailer, allowing operators to transport this portable solar light tower from location to location. All components are NEMA 3R rated for indoor/outdoor use.

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 165 watt solar panels, solar charging system, battery bank, industrial timer, remote site power monitoring components and a manual crank up mast mounted on trailer with outriggers. This 0.33KW 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 for equipment mounted atop the 16' telescoping light mast.

Light Mast: This telescoping two 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 16' for effective coverage. This light mast can be extended to 16' above the trailer floor for maximum area coverage, and collapsed to 10' for applications where a footprint smaller is required. The tower is constructed of square steel tubing with a lower section 10 feet in length and 4 inches in diameter and an upper section 8 feet in length and 3.5 inches in diameter with 2 foot of overlap. The mast is elevated using a tongue mounted 1,000 lbs manual crank hand winch with 3/16" cable, and extended to its full height using a tower mounted 1,000 lbs winch.

A 24" 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 customer provided equipment, including access points, wind generators, strobe lights, and 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 10', the mast can withstand winds up to 125 mph. Wheel chocks are provided to reduce tire movement during setup and deployment. Custom builds can be provided for higher wind speed resistance when fully raised.

Mast Wiring: A NEMA 3R enclosure at the top of the mast provides Power over Ethernet connection and 12V DC power to mounted equipment atop the mast. This reduces the amount of wiring that the operator must run to operate the camera. CAT5e cable within a weatherproof 3/4" coiled cable is run down the length of the fully extended mast to the control box the bottom and connected to a PoE switch is mounted within the control box.

Solar Panel Assembly: This unit is comprised of two 165-watt solar panels, generating a total maximum output of 0.33 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.

Batteries: The SPLT-V5-.33K-LM16.2S-500AH-ACC-AT-NYC features two 250aH batteries for a total battery bank capacity of 500aH with 250aH useable.

Wiring/Plug: This solar powered LED light tower comes with a 120V or 240V battery charger that is equipped with 30 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include standard 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.

Remote Site Power Monitoring: The SPLT-V5-.33K-LM16.2S-500AH-ACC-AT-NYC enables operators to monitor charge-discharge of batteries, solar panel charging voltage and ambient temperature. Up to 50 alarm condition settings are provided, with notifications via e-mail SNMP or syslog (up to 30 days of logging data).

Industrial Timer: For ease of operation, this unit is equipped with a clock-based, reverse-polarity protected programmable timer. The 100-watt, 12-hour and 8-event load controller is powered by an internal battery and offers programmed memory up to 3 months (without external power). In standby mode, the timer utilizes less than 3mA. An override feature allows the load to be manually turned on or off.

Component Control Center: All the electrical components are encapsulated in a NEMA 3R enclosure 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 144"L x 74"W x 75"H, 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 reversible ball coupling/pintle hitch is provided, which consists of a standard 2" ball coupling on one end and a 3" pintle towing hitch on the other end. To switch ends, the operator simply unbolts the hitch attachment, flips it to the desired end, and reinserts the bolt. 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-V5-.33K-LM16.2S-500AH-ACC-AT-NYC Trailer Mounted

Solar Generator Light Mast

Light Mast Specs

Tower Length: 10` to 16`

Stages: 2

Mast Head Length: 44"

Materials: Steel

Finish: Powder Coated - Gloss Blue

Operation: (1) 1,000lbs Hand Winch

Mast Cable: 3/16" Galvanized Aircraft Cable

Solar Specs

Panels: (2) 165 Watt panels

Method of Deployment: Fixed Mount

System Voltage: 12 Volts

Battery Bank: (2) 12V 250aH Batteries

Battery Capacity: 500aH Total / 250aH Usable

AC Battery Charger

Battery Charger: 120V or 240V Charger

Charger Wiring: 30' 16/3 SOOW Line-In w/ General Area Cord Cap

Cord Cap Options: 5-15 Straight, 6-15 Straight, L5-15 Twist, L6-15 Twist, UK BS1363, Intl. Schuko, Pigtail

Remote Site Power Monitor/Timer Specs

Alarm Condition Settings: 50

Automatic Notifications: E-mail, SNMP, Syslog

Quick Summary

10` to 16` Light Mast

Steel Construction

Powder Coated Finish

Removable Mast Head

(4) 1,000lb Outriggers

125 mph Wind Resistance

Manual or Optional Electric Operation

Fully Solar, No Fuel Needed

A-Frame for Mounted (2) 165W Solar Panels

Integrated Switch Panel

DOT Approved Trailer

NEMA 3R Rated Components

Logging Data: Up to 30 Days

Status Monitoring: Charge-discharge Current (Batteries), Charging Voltage, Ambient Temp

Timer Type: Clock-based Programmable/Reverse Polarity Protected

Events: 8 (12 Hour)

Watts/Amps: 100W/8A (Less Than 3mA in Standby Mode)

Memory: Up to 3 Months

Manual Override: On/Off

Trailer Specs

Materials: Steel

Trailer/Travel Dimensions: 144"L x 74"W x 75"H

Hitch: 3" NATO Pintle and 2" Ball Coupler Hitch

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: +-1200 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

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Special Orders- Requirements

Contact us for special requirements

Phone: 1-214-616-6180

Toll Free: 1-800-369-6671

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

[This product does not qualify for free shipping.](#)

[Part #: SPLT-V5-.33K-LM16.2S-500AH-ACC-AT-NYC \(154048\)](#)

Links (Click on the below items to view):

- [Hi-Res Image 1 - 16ft Portable Solar Light Tower](#)