Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

SPLT-.6K-LM50-800AL-BC-16TLR

Portable Solar Equipment Tower - 15' to 50' Mast - (2) 300W Panels, (20) Li-ion Batteries, Battery Charger, 16' Trailer

Product ID: 314685



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-.6K-LM50-800AL-BC-16TLR Trailer Mounted Solar Equipment Mast

Mast Specs

Tower Length: Telescoping from 15' to 50'
Capacity: 150 lbs
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (2) 2,500 lbs Hand Winch, Electric Optional
Mast Cable: 3/16" Aircraft Cable

Solar Specs

Panels: (2) 300 Watt panels

Method of Deployment: Fixed Mount

System Voltage: 12 Volts

Solar Charge Controller: 60A MPPT

Battery Bank: (20) 40aH Lithium-ion Batteries

Battery Capacity: 800aH Total / 800aH Usable

Battery Charger: 120V

Inverter: NA

System Runtime: -

Trailer Specs

Materials: Steel

Trailer Dimensions: 16`-L x 6`-W Trailer Bed

Quick Summary

15` to 50` Solar Light Tower
Steel Construction
Powder Coated Finish
Removable Mast Head
125 mph Wind Resistance
Manual or Optional Electric Operation
(2) 300 Watt Solar Panels
Fully Solar, No Fuel Needed
120V Battery Charger
Foldable Tongue

Wiring: 4-Pin Flat
Axle: 5,400 lbs

Suspension: 5,400 lb 4-Leaf Double Eye Springs

Outriggers: (4) 30" Retractable Outriggers w/ 1,000 lb Manual Crank Leveling Support Jacks and Flat Feet

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

Tires: ST205/75/D15 H188

Hitch: 2" Ball Coupler

Transport Dimensions: 160.68"-L x 88"-W x 81.15"-H
Weight: +-1200 lbs

Shipping: Common Freight

Shipping Dimensions: 14`L x 10`W x 12`H

Shipping Weight: -

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

Special Orders - Special Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

Made in the USA

The Larson Electronics SPLT-.6K-LM50-800AL-BC-16TLR Portable Solar Equipment Tower provides a safe and effective way for operators to use devices from elevated positions up to 50`. This solar assembly features a telescoping tower with a removable mast head for storage when not in use. This unit features two 300-watt solar panels (fixed mount), a 120V battery charger and an 800aH capacity lithium-ion battery bank.

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

The SPLT-.6K-LM50-800AL-BC-16TLR is a portable solar-powered system for outdoor and remote locations. This unit consists of a 50' telescoping mast, two 300-watt solar panels, lithium-ion battery bank, battery charger and solar charge MPPT controller. All components are mounted on a 16' trailer. This system does not come with monitoring plans.

Operation:

- (2) 300W solar panels w/ solar MPPT charge controller
- (20) 40aH lithium-ion batteries - 800aH total battery bank/800aH usable
- 120V battery charger
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) outriggers and vin#

Outdoor Cameras: This trailer mounted system does not have any cameras. We can add cameras at an additional cost.

Network Video Recorder: The solar assemble does not come with a network video recorder. We can add a network video recorder at an additional cost.

PA System: This unit does not have a PA system. We can add a one-way or two-way system upon request and with additional costs.

Router/Wireless 4G Hotspot: A router is not included with the system. We can add a router at an additional cost.

GPS Tracking: GPS tracking is not included with the system. We can add GPS tracking (a feature with the router) at an additional cost.

LED Strobe: The SPLT-.6K-LM50-800AL-BC-16TLR does not come with a security LED strobe light. We can add a blue, red or white LED strobe light at an additional cost (combination of colors is also possible).



Click Photo to Enlarge

Surveillance Tower: This telescoping solar Megatower from Larson Electronics is designed to allow operators to quickly and safely deploy lighting, cameras and other electrical equipment in locations where this equipment must be elevated to heights up to 50 feet for effective coverage. This light boom can be extended to 50 feet for maximum area coverage and collapsed to 15 feet for applications where a smaller footprint is required. The solar tower is constructed of square steel tubing with a base section 11` in length and 6" x 6" by 3/16" thick, lower section 11` in length and 5" x 5" by 3/16" thick, middle section 12` in length and 4" x 4" by 1/8" thick, an upper section 11` in length and 3" x 3" by 1/8" thick, and a top section 13` in length and 2" x 2" by 1/8" thick. Each section has a 15-18" overlap. The mast is elevated using an included 2,500 lbs hand winch with 3/16 inch cable and extended to its full height using a second 2,500 lbs winch. 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 equipment. The LM series of towers are powder coated with glossy blue finish for corrosion resistance and aesthetics.

The LM family of telescoping Megatower a proprietary mast guidance system, which provide increased stability during high winds. When lowered to 15 feet, the mast can withstand winds up to 125 mph. When elevated to its full upright position, the mast can be rotated a full 360°, regardless of the extended height of the mast. By loosening the T-Handle, operators can rotate the mast in either direction. The mast can be positioned in one of four different directions and locked back in place by re-tightening the T-handle. The mast itself spins freely and can typically be rotated with a single hand.

A total of four, 30" retractable outriggers with 1,000-lb support jacks and flat feet are available on this unit. During deployment, the outriggers create a wider footprint for the base of the trailer and aids leveling for stable operation. The outriggers also ensure stability, when exposed to high wind loads in order to prevent the tower from tipping over.



Click Photo to Enlarge

Solar Panel Assembly: This unit is comprised of two 300-watt solar panels, generating a total maximum output of 0.6 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 solar panels are mounted to a frame 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 twenty, 40aH lithium-ion batteries for an 800aH battery bank (800aH usable). Compared to conventional SLA batteries, these units are 100% usable and lighter in weight. Over time, this results in lower operating and maintenance costs. An included battery level indicator that provides real-time power monitoring for the battery bank.

Solar Charge Controller: The solar-powered system features a 60A MPPT solar charge controller.

Battery Charger: This system comes with a 120V battery charger, 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. We can add a 220V or 240V battery charger to power additional equipment from the solar tower at an additional cost (portable battery chargers are also available).

Inverter: This unit does not come with an inverter. We can add an inverter to power additional equipment from the solar tower at an additional cost.

Backup Generator: This unit does not come with a backup generator. We offer

models with gasoline, LPG/LNG or diesel backup gensets (may come with additional costs). For systems with battery chargers and backup generators, the battery charger is connected to the genset by default. It is possible to unplug the battery charger from the generator for local charging.
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 16` x 6` (trailer bed) trailer via six 1/2" anchor bolts. The trailer bed refers to deck space that holds system components and equipment (not including tires, hitch, bumper and external trailer components). This trailer is equipped with 5,400 lbs axle and leaf springs with 15" trailer tires. A standard 2" ball coupling, two standard safety chains and 4-pin flat trailer plug allow for easy hookup and towing. The trailer tongue can be folded up for seamless storage. A rugged and waterproof job box is included, safely secured to the trailer. Leveling jacks on the trailer allow operators to level the trailer, and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.
Applications: Live events, law enforcement, military, commercial, industrial facilities, outdoor surveillance, remote locations 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.









Frequently Asked Questions (FAQ)