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## SPLT-.6K-LM16-240AL-TLR7-M1

# 16' Solar Equipment Tower - 7.5' Trailer - (2) 300W Panels, (6) 40aH Batteries, Battery Charger - 40A CC

**Product ID: 276659**

**Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).**



**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-LM16-240AL-TLR7-M1 Trailer Mounted Solar Mast**

**Mast Specs**

**Tower Length: Telescoping from 10' to 16'**
**Stages: 3**
**Mast Head Length: 44"**
**Materials:** Steel
**Finish:** Powder Coated - Gloss Blue
**Operation:** (2) 1,000lbs Hand Winches, Electric Optional
**Mast Cable:** -

**Solar Specs**

**Panels:** (2) 300W panels
**Method of Deployment:** Fixed Mount
**System Voltage:** 12 Volts
**Solar Charge Controller:** 40A MPPT
**Battery Bank:** (6) 40aH Lithium-ion Batteries
**Battery Capacity: 240aH Total / 240aH Usable**
**Battery Charger:** 120V
**Inverter:** NA
**System Runtime:** -

**Quick Summary**

10` to 16` 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

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**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

**Leveling Jacks:** (4) 1,000 Manual Crank Leveling Jacks

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

**Tires:** ST205/75/D15 H188

**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

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## Made in the USA

**The Larson Electronics SPLT-.6K-LM16-240AL-TLR7-M1 Solar Equipment Tower provides a safe and effective way for operators to secure and use customer-provided equipment from elevated positions between 10` to 16`. This solar mast assembly features a telescoping tower with a removable mast head for storage when not in use. The unit features two 300-watt solar panels (fixed mount), a 120V battery charger and a 240aH capacity lithium-ion battery bank.**

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

The SPLT-.6K-LM16-240AL-TLR7-M1 is a portable solar-powered system for outdoor and remote locations. This unit consists of a 10` to 16` telescoping mast, two 300-watt solar panels, lithium-ion battery bank, battery charger and solar charge MPPT controller. All components are mounted on a single-axle trailer. This system does not come with monitoring plans.

**Operation:**

- (2) 300W solar panels w/ solar MPPT charge controller
- (6) 40aH lithium-ion batteries - 240aH total battery bank/240aH usable
- 120V battery charger
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) leveling jacks and vin#

**LED Lights:** The SPLT-.6K-LM16-240AL-TLR7-M1 does not have LED lights. We can add LED outdoor lights for illumination during nighttime operations at an additional cost.

**Outdoor Cameras:** The SPLT-.6K-LM16-240AL-TLR7-M1 does not come with outdoor cameras or network video recorders. We can add outdoor security cameras for monitoring remote sites 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:** This solar tower does not feature a professional-grade router. We can add a unit at an additional cost for remote operations requiring connectivity.

**GPS Tracking:** The system does not have GPS fleet tracking (we can add the feature at an additional cost). This feature enables operators to monitor the location of the solar-powered system easily. For models with GPS, cloud-based management tools enable access to the wireless network from compatible devices.

**LED Strobe:** The SPLT-.6K-LM16-240AL-TLR7-M1 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 three stage steel mast from Larson Electronics is designed to allow operators to quickly and safely deploy equipment in locations where it must be elevated to heights up to 16` for effective coverage. This light boom can be extended to 16 feet for maximum area coverage and collapsed to 10 feet for applications where a smaller footprint is required. Constructed of square steel tubing, the mast is extended to its full height using an included 1,000 lbs hand 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 the equipment. The LM series of towers are powder coated with glossy blue finish for corrosion resistance 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 components 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. Custom builds can be provided for higher wind speed resistance when fully raised.



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 six, 40aH lithium-ion batteries for a 240aH battery bank (240aH 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 provides real-time power monitoring for the battery bank.

**Solar Charge Controller:** The solar-powered system features a 40A 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 7.5` by 7`, single axle trailer via six 1/2" anchor bolts. Trailer length refers to the measurement from the hitch to the rear bumper. The trailer bed refers to deck space that holds system components and equipment (not including tires, hitch, bumper and external trailer components). This 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 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.
**Outriggers vs Leveling Jacks:** The solar-powered system features manual-crank leveling jacks. Outriggers help expand the surface area for large equipment or loads. This differs from leveling jacks that are used to stabilize or level systems. Leveling jacks can be mounted to outrigger legs (or the side of the trailer).
**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.

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# Frequently Asked Questions (FAQ)

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**Product ID: 276659**

**Export Control Classification Number (ECCN):** EAR99

Links (Click on the below items to view):

- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**