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SPLT-.6K-LM30-TLR-CV-M2

Mobile Solar Security Tower - 30' Mast, 7.5' Trailer - (2) 300W Panels, (4) 40aH Batteries - Mounting for (2) Cameras, (1) Gateway

Product ID: 280552

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-LM30-TLR-CV-M2 Trailer Mounted Solar Security Mast

Mast Specs

Tower Length: Telescoping to 30'
Stages: 5
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: Manual Winch
Mast Cable: 3/16" Galvanized Aircraft Cable

Solar Specs

Panels: (2) 300 Watt panels
Method of Deployment: Fixed Mount
System Voltage: 12 Volts
Solar Charge Controller: 40A MPPT
Battery Bank: (4) 40aH Lithium-ion Batteries
Battery Capacity: 160aH Total / 160aH Usable
Battery Charger: 120V
Inverter: 500W [120V]
System Runtime: -

Mounting Specs

Quick Summary

30' Solar Light Tower
Steel Construction
Powder Coated Finish
Removable Mast Head
125 mph Wind Resistance
Manual Winch Operation
(2) 300 Watt Solar Panels
Fully Solar, No Fuel Needed
120V Battery Charger
Foldable Tongue
500W Inverter
Collapsed Mast Clears Standard Bridges

Camera Mounting Provisions: (2) Bullet Cameras
Wireless Gateway Mounting Provision: (1)
Mount: Mast

Trailer Specs
Materials: Steel
Trailer Dimensions: 10`L x 6`W (Trailer Bed) - 14`L (Tow Length)
Trailer Footprint: 14.65`L x 12.91`W
Wiring: 7-Pin Flat
Axle: 3,500lb
Suspension: 3,500 Lb 4-Leaf Double Eye Springs
Leveling Jacks: (4) 1,000 Manual Crack Leveling Jacks
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 lb
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-LM30-TLR-CV-M2 Portable Security Tower provides a safe and effective way for operators to monitor locations from elevated positions up to 30`. This solar security 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), one 160aH capacity lithium-ion battery bank, one 120V battery charger and one 500-watt inverter. Mounting provisions for two cameras and one wireless gateway are available on the system.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS
The SPLT-.6K-LM30-TLR-CV-M2 is a complete, portable solar-powered security system for outdoor and remote locations. This unit consists of a 30` telescoping mast, two 300-watt solar panels, mounting provisions for two cameras and one wireless gateway, lithium-ion battery bank, battery charger, inverter and solar charge MPPT controller. All components are mounted on a single-axle trailer.
Operation:

- (2) 300W solar panels w/ solar MPPT charge controller
- Mounting provisions for (2) bullet cameras and (1) gateway
- 120V battery charger
- 500W, 120V inverter
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) leveling jacks and vin#

Bullet Cameras: This system does not have any cameras. We can add cameras at an additional cost.
Network Video Recorder: The solar security assembly does not come with a network video recorder, which can be added at an additional cost.
Router/Wireless 4G Hotspot: The solar security tower does not have a router or wireless 4G access. We can add these features at an additional cost.
GPS Tracking: This system does not have GPS tracking. We can add this feature at an additional cost.
LED Strobe: The SPLT-.6K-LM30-TLR-CV-M2 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 five-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 30` for effective coverage. This light boom can be extended to 30 feet for maximum area coverage and collapsed for applications where a smaller footprint is required. In a collapsed position, the tower is towable on roads and is capable of clearing standard bridges. The mast extends to its full height using an included manual 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 lb 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 collapsed, 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 four, 40aH lithium-ion batteries for a 160aH battery bank (160aH 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 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 comes with a 500-watt inverter, which operates on 120V.
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 10` (trailer length) x 10` (trailer bed) x 14` (tow length), 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: 280552

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

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