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SPLT-.6K-LM20-800AL-INV-220VBC

20' Portable Security Tower - (2) 300W Panels, (20) Li-ion Batteries - Inverter, 220V BC

Product ID: 313288



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-LM20-800AL-INV-220VBC Trailer Mounted Solar Security Mast

Mast Specs

Tower Length: 12' to 20'
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (1) 1,000 lb Hand Winch
Cable: 3/16" Galvanized Aircraft Cable
Capacity: -

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: 220V AC

Inverter: 220V

Receptacle: (1) 220V AC Service Outlet

System Runtime: Depends on Connected Equipment

Trailer Specs

Materials: Steel

Trailer Dimensions: 10`L x 6`W (Trailer Bed) - 14`L (Tow Length)

Quick Summary

12` to 20` Light Mast
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
220V Battery Charger
Foldable Tongue

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 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 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-LM20-800AL-INV-220VBC Portable Security Tower provides a safe and effective way for operators to deploy customer-provided equipment from elevated positions between 12` to 20`. This solar security 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 220V 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-LM20-800AL-INV-220VBC is a portable solar-powered security system for outdoor and remote locations. This unit consists of a 20' telescoping mast, two 300-watt solar panels, lithium-ion battery bank, inverter and service outlet, 220V 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
- (20) 40aH lithium-ion batteries - 800aH total battery bank/800aH usable
- 220V battery charger
- Inverter and 220V service outlet
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) leveling jacks and vin#

Outdoor Cameras: This trailer mounted security system does not include cameras. We can add cameras at an additional cost.
Network Video Recorder: The solar security assembly does not have 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: The solar security assembly does not have a router. We can add one at an additional cost.
LED Strobe: The SPLT-.6K-LM20-800AL-INV-220VBC 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).



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Light Mast: This telescoping three stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy equipment in locations where this equipment must be elevated to heights up to 20' for effective coverage. This light boom can be extended to 20' above the trailer floor for maximum area coverage, and collapsed to 12' for applications where a smaller footprint is required. The tower is constructed of square steel tubing with a lower section 12 feet in length and 4 inches in diameter, a middle section 8 feet in length and 3.5 inches in diameter, and an upper section 6 feet and 3 inches in diameter. Each section has 2' of overlap. The mast is elevated using an included 1,000 lbs. hand winch with 3/16 inch cable and extended to its full height using a second 1,000 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. 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 and can be rotated with a single hand. 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 outriggers can be extended 2' out from the side of the trailer for added stability. When lowered to 12', 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 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 220V 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 120V 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 an inverter and 220V AC service receptacle.
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 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.









Frequently Asked Questions (FAQ)