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## SPLT-.9K-LM25-EW-ISGG-ACC-TLR7-4XPTZ-20X-SP-BC

# 25' Portable Solar LED Security Tower - 7.5' Trailer - (3) Panels, (4) LED Lights, (4) IP NDAA Cameras, Backup Gen - Shore Power/BC

**Product ID: 335423**



Image: SPLT-.9K-LM25-EW-ISGG-ACC-TLR7-4XPTZ-20X-SP-BC

**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-.9K-LM25-EW-ISGG-ACC-TLR7-4XPTZ-20X-SP-BC Trailer Mounted Solar Security Mast**

**Mast Specs**

**Tower Length:** Telescoping from 25'
**Stages:** 5
**Mast Head Length:** 44"
**Materials:** Steel
**Finish:** Powder Coated - Gloss Blue
**Operation:** Electric Winch
**Mast Cable:** -

**Solar Specs**

**Panels:** (3) 300 Watt panels
**Method of Deployment:** Fixed Mount
**System Voltage:** 12 Volts
**Solar Charge Controller:** 40A MPPT
**Battery Bank:** (12) 40aH Lithium-ion Batteries
**Battery Capacity:** 480aH Total / 480aH Usable
**Battery Charger:** 120 V
**Inverter:** NA
**Shore Power Capable:** 30A Inlet NEMA L5-30 125V with 30A MCCB, 30A 2P MTS

**Gas Generator Specs**

**Quick Summary**

National Defense Authorization Act (NDAA) Compliant
25' Solar Light Tower
Steel Construction
Powder Coated Finish
Removable Mast Head
125 mph Wind Resistance
Electric Winch Operation
(3) 300 Watt Solar Panels
Fully Solar, No Fuel Needed
120 V Battery Charger
Foldable Tongue
Collapsed Mast Clears Standard Bridges

**Unit Type:** Gas-powered Generator

**Engine:** 420CC 15 HP OHV

**Rated Power:** 7,000W output, 9,000W peak

**Fuel Capacity:** 6.5 gallons

**Voltage:** 120V 20A, 120/240V 30A, 120V 30A, 12V DC

**Starting System:** Recoil & Electric

**Autostart:** When Battery Bank Reaches Below 30% Capacity

**IP Camera Specs**
**Camera Qty:** (4)
**Camera Type:** Security Cameras
**Camera Dimensions:** 14.38" H x 7.12" D
**Camera Weight:** 9 lbs
**Total Watts:** 51 (Max)
**Voltage:** 24V AC (PoE - 802.3at)
**Image Sensor:** CMOS
**Connectors:** 1.0Vp-p, 75 Ohm, BNC
**Effective Pixels:** 2.1 MP, 1920 x 1080 Resolution
**Min. Illumination:** 0.02 Lux @ F1.6 AGC On, 0 Lux w/ IR
**Electronic Shutter:** 1 ~ 1/10,000s
**Lens:** 4.7-94mm Varifocal Lens
**Angle of View:** 58.3° (Wide) ~ 3.2° (Tele)
**Optical Zoom:** 20x
**Day/Night:** ICR
**IR Distance:** 492` (850 nm)
**Video Framerate:** 1080p @ 30fps
**Video Offload:** MP4
**Video Output:** (1) BNC
**Language:** English
**Ambient Temperature Range:** -22°F to 149°F
**Housing Materials:** Aluminum
**Lens Material:** Polycarbonate
**Mounting:** Tower

**LED Light Specs**
**Lamp Qty:** (4)
**Lamp Type:** CREE LED
**Single-lamp Dimensions:** W-9" D-3.25" H-6.5"
**Voltage:** 11-25 Volts AC/DC
**Total Watts:** 240W
**Single-lamp Watts:** 60W
**Total Lumens:** 21,600 lms
**Single-lamp Lumens:** 5,400 lms
**Luminous Efficacy:** 90 lm/w
**LED Life Expectancy:** 50,000+ hours
**Color Temp:** 5600K, 4000K or 3000K
**Color Rendering Index:** 80
**Beam Angle:** 60° Vertical, 75° Horizontal
**Lighting Configuration:** Flood Beam
**Sensor:** Day/Night w/ Manual Override
**Ambient Temp Range:** -50°C to +70°
**Housing Material:** Cast Aluminum
**Lens Material:** Polycarbonate
**Mounting:** Tower

**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-.9K-LM25-EW-ISGG-ACC-TLR7-4XPTZ-20X-SP-BC Portable Security Tower provides a safe and effective way for operators to monitor locations from elevated positions up to 25'. This solar security assembly features a telescoping tower with a removable mast head for storage when not in use. Four NDAA compliant bullet security cameras can be used to record images. Equipped with four LED lights, this unit features three 300-watt solar panels (fixed mount), a 120V battery charger and a 480aH capacity lithium-ion battery bank.**

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

The SPLT-.9K-LM25-EW-ISGG-ACC-TLR7-4XPTZ-20X-SP-BC is a complete, portable solar-powered security system for outdoor and remote locations. This unit consists of a 25' telescoping mast, three 300-watt solar panels, four outdoor cameras, four LED lights, lithium-ion battery bank, backup gasoline generator, shore power features, battery charger and solar charge MPPT controller. All components are mounted on a single-axle trailer. This system does not come with monitoring plans.

All cameras on this system comply with the 2019 National Defense Authorization Act (NDAA). The regulation bans federal governments, their contractors, and businesses with national security interests from buying and using surveillance equipment made by specific major China-based manufacturers, including Hikvision, Dahua and their OEMs. Security products sold by Honeywell, Bosch, Panasonic, ADT, Flir and many more are affected by the ban. NDAA compliance also includes a ban on ZTE, Huawei and Hytera telecommunication equipment.

**Operation:**

- (3) 300W solar panels w/ solar MPPT charge controller
- (12) 40aH lithium-ion batteries - 480aH total battery bank/480aH usable
- (4) Bullet cameras
- 120 V battery charger
- Backup gasoline generator
- Shore power capable, 30A L5-30 inlet, 30A MCCB and 30A 2P MTS
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) leveling jacks and vin#

**Network Cameras:** The security cameras provide operators with crisp, 1080p full-HD high

resolution images. A 4.7-94mm varifocal lens automatically adjusts focus, providing operators with precise 20x optical zoom levels. Integrated long-range IR LEDs, with a wavelength measurement of 850 nm, enable the day/night cameras to see distances up to 492' under nighttime conditions. The units offload videos in MP4 format and features H.264 and MJPEG video compression. The PTZ cameras each measure a compact 14.38" x 7.12".

The cutting-edge security devices are designed to perform in outdoor locations and rainy conditions. The IP66-rated units resist the negative effects of non-corrosive liquids. De-fogging features enable the units to operate in rainy and foggy conditions. The devices are capable of operating in temperatures between -22°F and 149°F.

**Network Video Recorder:** This unit does not have a network video recorder. We can add a network video recorder upon request and with additional costs.

**LED Lights:** The system contains four, 60-watt LED lights for illuminating outdoor locations. Each unit produces 5,400 lumens of output, with a combined total of 21,600 lumens. The light assemblies consist of six LEDs paired with high purity specular optics to produce a wide light distribution overpowering that of a 500 watt quartz flood lights. This light is constructed of three angled boards that helps provide a wider spread. Instead of the light only shining forward, the center board is concentrated to go straight out while the boards on the side are 45° offset. The LED lights are designed to withstand demanding conditions and is waterproof, vapor proof and built to resist the damaging effects of an outdoor environment.

All LED lights are housed within a waterproof aluminum housing that is powder coated for added durability and resistance to corrosion. The housing incorporates integral cooling fins for efficient heat dissipation and increased LED longevity. The LED lamp assembly is protected by a shatterproof polycarbonate lens which is secured to the housing with a waterproof seal. A 1/2" waterproof connector provides a secure and sealed power connection point and rounds out this unit's weather resistant construction. An optional glare shield it shipped with this light.

Accessible day/night sensors enable automated functionality, allowing the lights to turn on automatically at night and off during the day. A manual override switch can be used to bypass the photocell sensors and turn the units on/off as needed.

**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 unit does not have a router. We can add a router upon request and with additional costs.

**GPS Tracking:** This unit does not have router-based GPS tracking. We can add a router-based GPS tracking upon request and with additional costs.

**LED Strobe:** The SPLT-.9K-LM25-EW-ISGG-ACC-TLR7-4XPTZ-20X-SP-BC 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

**Light 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 25' for effective coverage. This light boom can be extended to 25 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 electric 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, 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 three 300-watt solar panels, generating a total maximum output of 0.9 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 twelve 40aH lithium-ion batteries for a 480aH battery bank (480aH 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 does not come with an inverter. We can add an inverter to power additional equipment from the solar tower at an additional cost.

**Backup Gas Generator:** A backup gas-powered generator is available on the system, which automatically starts when battery voltage drops below acceptable levels. Powered by a 4-stroke OHV single cylinder engine with a forced air cooling system, this unit features a variety of receptacles, including four 120V 20A three-prong receptacles, one 120/240V 30A twist-lock (L14-30), and one 120V 30A twist lock, as well as one 12V DC cigarette lighter style car-charger outlet.

We offer models with LPG/LNG or diesel backup gensets (may come with additional costs). An autostart feature automatically activates the backup generator when the battery bank reaches below 30% capacity. 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 lb 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)

There are no Faqs