

SPLT-.53K-LM45-4XLED-MS-SL-TLR7-M1

45' Portable Solar Tower - 7.5' Trailer - (4) LED Lights, Motion Sensor, Strobe Lights

Product ID: 309552



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-.53K-LM45-ISGG-ACC-TLR7-M1 Trailer Mounted Solar Mast

Mast Specs

Tower Length: Telescoping from 45'

Stages: 5

Mast Head Length: 44"

Materials: Steel

Finish: Powder Coated - Gloss Blue

Operation: Electric Winch

Camera Mount: Included

Solar Specs

Panels: (2) 300 Watt 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: 120 V

Inverter: NA

System Runtime: -

Quick Summary

Collapsed Mast Clears Standard Bridges

45' Solar Light Tower

Steel Construction

Powder Coated Finish

Removable Mast Head

125 mph Wind Resistance

Electric Winch Operation

(2) 300 Watt Solar Panels

Fully Solar, No Fuel Needed

120 V Battery Charger

Foldable Tongue

Motion Sensor

Security Strobe Light Specs

Unit Type: LED

Colors: Red/Blue

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: Motion Sensor 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 Crank 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-.53K-LM45-4XLED-MS-SL-TLR7-M1 Portable Tower provides a safe and effective way for operators to deploy equipment from elevated positions up to 45'. This solar security assembly features a telescoping tower with a removable mast head for storage when not in use. Equipped with four LED lights with motion sensor, 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-.53K-LM45-4XLED-MS-SL-TLR7-M1 is a complete, portable solar-powered security system for outdoor and remote locations. This unit consists of a 45' telescoping mast, two 300-watt solar panels, four LED lights with motion sensor, lithium-ion battery bank, battery charger and solar charge MPPT controller. Mounting and wiring for customer-provided cameras are included. 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
- 120 V battery charger

- Red/blue strobe lights
- (4) LED lights with motion sensor
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) leveling jacks and vin#

Network Cameras: The system does not have cameras. We can add cameras at additional costs.

Network Video Recorder: The system does not have an NVR. We can add an NVR at 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 is shipped with this light.

Motion Sensor: This solar light system is operated via the equipped motion sensor. An internal 3-way switch allows operators to power the lights on, off, or on via the motion sensor. When set to power on via the motion sensor, the lights will automatically turn on whenever motion is detected. With LED technology, there is no warm up period, providing instant high powered illumination. This means that whenever motion is detected, the lights instantly power up and illuminate the area.

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 system does not come with a router. We can add a router at an additional cost.

GPS Tracking: The system does not come with GPS tracking. We can add a router for GPS tracking at an additional cost.

LED Strobe: The SPLT-.53K-LM45-4XLED-MS-SL-TLR7-M1 come with a red/blue 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 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 45' for effective coverage. This light boom can be extended to 45 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.



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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 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 Generator: This system does not include a backup generator. We can add a gas, diesel or LPG generator at an additional cost.

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.

Frequently Asked Questions (FAQ)