Larson Electronics LLC
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Product ID: 285088

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



Image:

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-LM30-2XN3B-PW-1X24AC-SGB-ISGG-ACC-DTLR10 Trailer Mounted Solar Generator Light Mast

Light Mast Specs

Tower Length: 13.5' to 30'
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (1) 1,000 lb Hand Winch
Mast Cable: 3/16" Galvanized Aircraft Cable
Cable Sheath: Sealtight Coiled Tubing

Solar Specs

Panels: (2) 265 Watt panels
Method of Deployment: Fixed Mount
System Voltage: 12 Volts
Battery Type: Gel Cell
Battery Bank: (2) 12 V 8D 250aH batteries
Battery Capacity: 500aH Total / 250aH Usable
Battery Charger: 120 V or 240 V Charger
Charger Wiring: 30' 16/3 SOOW Line-In w/ General Area Cord Cap
Cord Cap Options: 5-15 Straight, 6-15 Straight, L5-15 Twist, L6-15 Twist, UK BS1363, Intl. Schuko, Pigtail

Gas Generator Specs

Unit Type: Gas-powered Generator

Quick Summary

13.5' to 30' Light Mast
Steel Construction
Powder Coated Finish
Removable Mast Head
(4) 1,000lb Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
A-Frame for Mounted (2) 265 Watt Solar Panels
Fully Solar, No Fuel Needed
24 V AC Terminal Block for Powering or Charging 24 V AC Devices
Gel Cell Batteries for Cold Environments
Heavy-Duty Tandem Axle Trailer

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

Trailer Specs
Trailer Type: Tandem Axle Trailer
Materials: Steel
Trailer Dimensions: 10'L x 6'-W (Trailer Bed) - 14'-L (Tow Length)
Hitch: 2" Ball Coupler
Wiring: 7-Pin Flat
Axle: 3,500 lb
Suspension: 3,500 Lb 4-Leaf Double Eye Springs
Outriggers: (4) 1,000 Manual Crack Leveling Jacks
Wheels: (2) 15" 5x4.5 Steel Rims
Tires: ST205/75/D15 H188
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 SPLT-.53K-LM30-2XN3B-PW-1X24AC-SGB-ISGG-ACC-DTLR10 from Larson Electronics is a Solar Powered LED Light Tower that provides a safe and effective way for operators to quickly deploy cameras, security devices, and other equipment to elevations up to thirty feet. This solar light plant features a telescoping light tower on a tandem axle trailer that folds over for easy transportation, a rotating boom that allows for 360° rotation, and a removable mast head for storage when not in use. This unit features two 265 watt solar panels and a 400aH capacity gel cell battery bank with 200aH being usable. The portable light mast also includes a backup gasoline generator and a 120 V or 240 V battery charger with 30' cable terminated in a general area cord cap for charging the battery bank when solar energy is not available, as well as a 24V AC terminal block for connecting 24 V AC devices. This allows operators to power or charge 24V AC devices from the solar tower at a maximum of 500 VA at 24 V AC.

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

This tandem axle trailer mounted light mast with solar generator has a 12" x 12" x 6" junction box mounted at the top of the mast for connecting cameras and other devices. This junction box is ideal for mounting security cameras for a 360° field of view along with other electrical devices for specific operational needs. The top mounted junction box is secured to the mast head via a half-moon shaped mounting plate. External sealtite coiled tubing runs around the mast to allow operators to run Ethernet cable to the junction box at the top of the mast. The tubing connects the junction box and base solar component box together. The entire assembly is mounted onto a 10' tandem axle trailer, allowing operators to transport this portable solar light tower from location to location.

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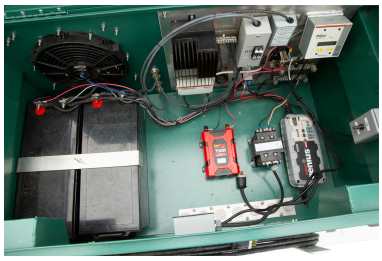
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Click Photo to Enlarge







Solar Powered Light Tower: This solar light tower includes two 265 watt solar panels, solar charging system, battery bank, 24 V AC terminal block and manual crank up mast mounted on trailer with outriggers. This 0.53 KW solar generator system replenishes amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. This system delivers 12 volts for equipment mounted atop the 30' telescoping light mast. For times when sunlight isn't readily available for charging, the SPLT-.53K-LM30-2XN3B-PW-1X24AC-SGB-ISGG-ACC-DTLR10 also comes with a 120 V or 240 V battery charger that has a 30' line-in cord that is terminated in a general area cord cap. In addition, this solar tower also offers operators the ability to power or charge 24 V AC devices via a 24 V AC terminal block that operates at a maximum 500 VA at 24 V AC.

Click Photos to Enlarge



5-15 Straight Blade Plug
15 Amp / 125V Rated



L5-15 Twist Lock Plug
15 Amp / 125V Rated



L6-15 Twist Lock Plug
15 Amp / 250V Rated



UK BS1363 Straight Blade Plug
13 Amp / 250V Rated / Internal Fuse



Intl Schuko 2-Pin Plug
16 Amp / 250V Rated / Grounded



Flying Leads / Pigtail Wires

Wiring/Plug: This solar powered LED light tower comes with a 120 V or 240 V battery charger that

is equipped with 30 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include standard 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.

Light Mast: This telescoping five stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy a variety of equipment in locations where it must be elevated to heights up to 30' for effective coverage. This light mast can be extended to 30' above the trailer floor for maximum area coverage, and collapsed to 13.5' for applications where a footprint smaller is required. The tower is constructed of square steel tubing with a base section 6.6' in length and 6" by 6" by 3/16" thick, lower section 6.78' in length and 5" by 5" by 3/16" thick, middle section 6.93` in length and 4" by 4" by 1/8" thick, upper section 7.08' in length and 3" by 3" by 1/8" thick, and top section 7.58' in length and 2" by 2" by 1/8" thick. Each section has a 1'+ overlap. The mast is extended to its full height using an included 1,000 lb rated hand winch with 3/16" galvanized steel cable. Junction boxes are mounted at the top of the first stage and at the very top of the mast for equipment setup, connection, and deployment.

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 equipped LED light fixtures. A half-moon shaped mounting plate on the top of the mast head provides a secure mounting platform for the NEMA 3R 12" x 12" x 6" junction box, where operatores can mount cameras, indicator lights, and route electrical cabling. 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 with easy, and can typically be rotated with a single hand. The LM series of towers are powder coated with glossy blue finish for corrosion resistances 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 outriggers can be extended 2' out from the side of the trailer for added stability. When lowered to 13.5', the mast can withstand winds up to 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.

Solar Panel Assembly: This unit is comprised of two 265-watt solar panels, generating a total maximum output of 0.53 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 two solar panels are mounted to a frame angled at 45° to capture the intensity of the sun for optimized light intake.

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).

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

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Product ID: 285088

Export Control Classification Number (ECCN): EAR99

Options:

-Cord Cap
Example: -5.15

Cord Cap	
5-15 STRAIGHT	-5.15
6-15 STRAIGHT	-6.15
L5-15 TWIST	-L5.15
L6-15 TWIST	-L6.15
UK BS1363	-BS1363
INTL. SCHUKO	-Schuko
PIGTAIL	-Pigtail

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- **HigResPic2**(https://www.larsonelectronics.com//images/product/HigResPic2/285088.JPG)
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