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SPLT-.6K-LM30-ISDG-EW-VT7-NYC-2XN3B-TLR10-M1

30' Portable Solar Light Tower on 10' Trailer - 5kW Diesel Generator, (16) Batteries, Inverter/BC - (2) N3R Boxes

Product ID: 283571

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-ISDG-EW-VT7-NYC-2XN3B-TLR10-M1 Trailer Mounted Solar Generator Light Mast

Light Mast Specs

Tower Length: 13.5' to 30'
Stages: Five
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: Electric Winch
Mast Cable: 3/16" Galvanized Aircraft Cable
Cable Sheath: Sealtight Coiled Tubing
Maximum Load: 150 lbs
Wind Resistance (Fully Extended): 75 mph
Wind Resistance (Fully Lowered): 125 mph
NEMA 3R Boxes: (2) 12" x 12" x 6" - One at Top of Mast and One at Base
Nycoil Cord: 1" for Wiring between the NEMA 3R Boxes

Backup Generator Specs

Generator Capacity: 5kW
Auto Start: Generator is Activated When Batteries Run Out of Power
Battery Charger: 120V - Connected to Generator by Default

Solar Specs

Panels: (2) 300 Watt panels

Quick Summary

13.5' to 30' Non Fold Over Light Mast
Steel Construction
Powder Coated Finish
Removable Mast Head
(4) 1,000 lb Outriggers
125 mph Wind Resistance
Electric Operation - Manual Optional
A-Frame for mounted (2) 300 Watt Solar Panels
Fully Solar, No Fuel Needed

Method of Deployment: Fixed Mount
System Voltage: 12 Volts
Charger Controller: 60A
Battery Bank: (16) 40aH Lithium-iron Phosphate Batteries
Battery Capacity: 640aH Total / 640aH Usable
Inverter Capacity: 500W
Inverter Voltage: 12V DC to 120V AC

Trailer Specs
Materials: Steel
Trailer Dimensions: 10'L x 7'W Trailer Bed - 10.75' Total 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 lb Manual Crank Leveling Jacks
Wheels: (2) 15" 5x4.5 Steel Rims
Tires: ST205/75/D15 H188
Dimensions (Transport): 167.07"H x 97.00"W x 139.85"L (Including Trailer Hitch)
Dimensions (Deployed): 383.07"H x 97.00"W x 139.85"L (Including Trailer Hitch)
Weight: +-600 lb
Shipping: Common Freight
Shipping Dimensions: 10.5'L x 8'W x 12'H
Shipping Weight: +-1,200 lbs
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-.6K-LM30-ISDG-EW-VT7-NYC-2XN3B-TLR10-M1 from Larson Electronics is a Solar Powered 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 system features a telescoping non-fold over mast, which allows 360° of rotation and a removable mast head for storage when not in use. Equipped with a 500-watt inverter for converting 12V DC to 120V AC, this unit has two 300-watt solar panels and a 640 aH capacity battery bank.

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

This trailer mounted light mast with solar generator has two 12" x 12" x 6" junction boxes (one mounted at the top of the mast and one at the base) 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 each operator's specific needs. The top mounted junction box is mounted to the mast head via a half-moon shaped mounting plate. External 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' single-axle trailer, allowing operators to transport this portable solar light tower from location to location.



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Light Mast: This telescoping, non-fold over 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 smaller footprint 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 electric winch with 3/16" galvanized steel cable.
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. 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 operators 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 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 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. When raised to the maximum height, the mast can withstand winds up to 75 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: This unit features a 640aH battery bank (100% usable), which consists of sixteen 40aH lithium-iron phosphate batteries.
Solar Charge Controller: The solar-powered system has a 60-amp 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 to power 120V equipment.
Backup Generator: This unit has a 5 kW backup diesel generator. An auto start feature activates the generator when the batteries run out of power. 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.
Enclosures: Two 12" x 12" x 6" NEMA 3R rated electrical enclosures are available at the top and bottom of the system for customer-provided equipment, installations and devices. There is 1" nycoil cord for completing wiring connections between the boxes when installing and powering customer-provided equipment.
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' by 7', single axle trailer via six 1/2" anchor bolts. The 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 removed for long term deployment. A rugged and waterproof job box is included, safely secured to the trailer. Four outriggers mounted to the corners of the trailer allow operators to level the trailer, and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.
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: 283571

Export Control Classification Number (ECCN): EAR99

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- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map