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SPLT-.3K-LM30-2XN3B-PW-ACC-TLR7-M1

30' Portable Solar Tower on 7.5' Trailer - (1) Panel, (2) 40aH Batteries w/ 16A BC - (1) Junction Box

Product ID: 280302



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-.3K-LM30-2XN3B-PW-ACC-TLR7-M1 Trailer Mounted Solar Mast

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

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
Fully Solar, No Fuel Needed

Solar Specs
Panels: (1) 265W Panel
Method of Deployment: Fixed Mount
System Voltage: 12 Volts
Battery Bank: (2) 40aH Lithium-iron Phosphate
Battery Capacity: 80aH Total / 80aH Usable
Battery Charger: 16A, 120V or 240V 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
Runtime: 25-watt Device for 1 Full Day w/o Sun

Trailer Specs
Materials: Steel
Trailer Dimensions: 7.5`L` x 7`W trailer bed- 10.75 total length
Hitch: 2" Ball Coupler
Wiring: 7-Pin Flat

Axle: 3,500lb

Suspension: 3,500 Lb 4-Leaf Double Eye Springs

Outriggers: (4) 1,000 Manual Crank Leveling Jacks

Wheels: (2) 15" 5x4.5 Steel Rims

Tires: ST205/75/D15 H188

Weight: +-600 lbs

Shipping: Common Freight

Shipping Dimensions: 8`-L x 8`-W x 12`-H

Shipping Weight: +-600 lbs

Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

Special Orders- Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics SPLT-.3K-LM30-2XN3B-PW-ACC-TLR7-M1 Portable Solar Tower 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 that folds over for easy transportation, a rotating boom that allows for 360° of rotation and a removable mast head for storage when not in use. The unit features one solar panel and an 80aH capacity battery bank with 80aH being usable. The SPLT-.3K-LM30-2XN3B-PW-ACC-TLR7-M1 also includes a 120V or 240V battery charger with a 30` cable terminated in a general area cord cap for charging the battery bank when solar energy is not available.

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

This 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 each operator`s specific needs. The top mounted junction box is mounted 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 7.5` single axle trailer, allowing operators to transport this portable solar light tower from location to location.

Solar Powered Light Tower: This solar light tower includes one 265-watt solar panel, solar charging system, battery bank and manual crank up mast mounted on trailer with outriggers. This 0.26KW solar generator system replenishes amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. The unit can power a 25-watt device for one full day without sun.
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-.3K-LM30-2XN3B-PW-ACC-TLR7-M1 also comes with a 120V or 240V battery charger that has a 30` line-in cord that is terminated in a general area cord cap.

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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 tower comes with a 120V or 240V 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 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 1,000lb 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 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 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 13.5`, 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 one 265-watt solar panel, generating a total maximum output of 0.26 KW. The panel is mounted to a stationary assembly. The panel is wired to the solar charger control box which manages the charging system. The panel is mounted to a frame angled at 45° to capture the intensity of the sun for optimized light intake. Two 40aH lithium-iron phosphate batteries are included with the unit.
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 7.5` by 7`, single axle trailer via six 1/2" anchor bolts. The 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 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.









Frequently Asked Questions (FAQ)