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SPLT-0.3K-LM45-160AHL-1XN3B-NYC-PW-BC-TLR7-120V

Mobile Communications Solar Tower - 13.5' to 45' Fold Over Mast, 7.5' Trailer - (1) 300W Solar Panel, (2) 80aH Lion Batteries - (1) Junction Box

Product ID: 287616

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-0.3K-LM45-160AHL-1XN3B-NYC-PW-BC-TLR7-120V Trailer Mounted Mobile Communications Solar Tower

Light Mast Specs

Tower Length: 13.5' to 45' - Fold Over Mast
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (1) 1,000 lbs Hand 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

Solar Specs

Panel: (1) 300W
Method of Deployment: Fixed Mount
System Voltage: 12 Volts
Battery Bank: (2) 80aH Lithium-ion Batteries
Battery Capacity: 160aH Total / 160aH Usable
Battery Charger Voltage: 120V
Battery Charger Cord: 15' 16/3 SOOW Cord
Battery Charger Cord Cap Options: 5-15 Straight, L5-15 Twist or Pigtail
Runtime: (1) 25-watt Device for 24/7 or (1) 50-watt Device for 12/7
Nycoil Cable: (1 Set) 12V Power Cables and (1) CAT5e Network Cable - Unterminated

Quick Summary

13.5' to 45' Light Mast
Steel Construction
Powder Coated Finish
Removable Mast Head
(4) 1,000 lb Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
A-Frame for mounted (1) 300 Watt Solar Panel
Fully Solar, No Fuel Needed

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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: 3,500 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 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 - Special Requirements
Contact us for special requirements

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Made in the USA

The SPLT-0.3K-LM45-160AHL-1XN3B-NYC-PW-BC-TLR7-120V from Larson Electronics is a Mobile Communications Solar Tower that provides a safe and effective way for operators to quickly deploy cameras, security devices, and other equipment to elevations up to forty-five feet. This fold over 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. This unit has one 300-watt solar panel, two 80aH lithium-ion batteries and a 120V battery charger with 15' of 16/3 SOOW cord.

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

This trailer mounted fold over 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. The 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. Operators may access an nycoil cable that contains one set of 12V power cables and one CAT5e network cable (unterminated). 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.



Click Photo to Enlarge



Click Photo to Enlarge





Solar Powered Light Tower: This solar light tower includes one 300-watt solar panel, solar charging system, battery bank and manual crank up mast mounted on trailer with outriggers. This 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 45' telescoping light mast. A junction box is mounted at the very top of the mast for equipment setup, connection, and deployment.
Light Mast: This fold over, 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 45' for effective coverage. This light mast can be extended to 45' 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 1,000 lb rated hand 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.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

Solar Panel Assembly: This unit is comprised of one 300-watt solar panel, which offers two days of automation without sun. The panel is mounted to a stationary

assembly. This panel is wired to the solar charger control box which manages the charging system. Energy from the panel is stored via two 80aH lithium-ion batteries. During use, the system has the following run times: (1) 25-watt device for 24/7 or (1) 50-watt device for 12/7. An included 120V battery charger allows operators to charge the batteries when sunlight is insufficient.

Wiring/Plug: The battery charger on the unit is equipped with a 15-foot 16/3 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 or NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets. 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.

Click Photos to Enlarge



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



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



Flying Leads / Pigtail Wires

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 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: 287616

Export Control Classification Number (ECCN): EAR99

Options:
SPLT-0.3K-LM45-160AHL-1XN3B-NYC-PW-BC-TLR7-120V-Cord Cap
Example: SPLT-0.3K-LM45-160AHL-1XN3B-NYC-PW-BC-TLR7-120V-5.15

Cord Cap	
5-15 STRAIGHT	-5.15
L5-15 TWIST	-L5.15
PIGTAIL	-Pigtail

Links (Click on the below items to view):

- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map