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SPLT-2.4K-1600A-2XLM-30-8X120W-LED-BC.40.240

2.4KW Solar Powered Security Dual Mast Light Tower - (8) 120W LED Lights - (2) 30' Manual Masts

Product ID: 267094

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-2.4K-1600A-2XLM-30-8X120W-LED-BC.40.240 Trailer Mounted Solar Dual Light Mast

Light Mast Specs

Tower Length: (2) Telescoping from 8.75' to 30'
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (1) 3,500 lb Manual Winch per Mast
Mast Cable: 3/16" Galvanized Aircraft Cable

Quick Summary

8.75' to 30' Light Masts
Steel Construction
Powder Coated Finish
Removable Mast Head
125 mph Wind Resistance
Manual or Optional Electric Operation
Fully Solar, No Fuel Needed

Solar Specs

Panel Watts: 2,400W
Method of Deployment: Manual
System Voltage: 24 Volts
Battery Capacity: 1600aH @ 24V
Battery Charger: 40A
Outlets: (2) 50A Twist-lock [120/240V], (2) 20A Duplex [120V]
System Runtime: -

Light Specs

Lamp Qty: 8 Total (4 per mast)
Lamp Technology: LED
Total Watts: 960W
Single-lamp Watts: 120W

Total Lumens: 86,000
Single-lamp Lumens: 10,750
Luminous Efficacy: 90 Lm/W
Light Distribution: 1-2 Acres
Color Temperature: 4,000K
Rated Lifespan: 50,000+ Hours
Lens Material: Strengthened Glass
Mount: Tower

Transport Specs

Materials: -

Transport Dimensions: 8'-W x 23' 6"-L x 10' 6"-H

Deployed Dimensions: 12' 6"-W x 22'-L x 21'-H

Dry Weight: 8,450 lbs

Axle: Tandem Axle

Suspension: -

Outriggers: -

Wheels: -

Tires: -

Weight: -

Shipping: Common Freight

Shipping Dimensions: -

Shipping Weight: -

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

Special Orders - Special Requirements

Contact us for special requirements

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The SPLT-2.4K-1600A-2XLM-30-8X120W-LED-BC.40.240 from Larson Electronics is a Solar Powered Dual Light Tower that produces 86,000 lumens of high intensity LED light for wide-area coverage. This dual light tower is completely solar powered which makes it ideal for work areas and job sites that are not close to traditional power sources. The lack of a generator being required to power the SPLT-2.4K-1600A-2XLM-30-8X120W-LED-BC.40.240 eliminates the noise associated with gas powered generators.

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

This solar powered security light tower includes 2,400-watt solar panels, battery bank, accessible outlets, eight LED lamps, and a pair of 30-foot light towers each holding four of the LED lamps on either side of the solar panel array. All system components are secured on a trailer for seamless mobility.

Light Tower: Each light mast can be extended to 30' for maximum area coverage and collapsed to 8.75' for applications where a smaller footprint is required. The towers are 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 masts are extended to their full height using an included 3,000 lb manual hand winch with 3/16" galvanized steel cable on each mast. The LM series of telescoping towers are powder coated with glossy blue finish for corrosion resistance and aesthetics. 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 light fixtures.

The LM family of telescoping towers feature a proprietary mast guidance system, which provides increased stability during high winds. When lowered to 8.75', the masts can withstand winds up to 125 mph. When elevated to their full upright position, the masts can be rotated a full 360°. By loosening the T-Handle, operators can rotate the masts with ease in either direction. The masts can be positioned in one of four different directions, and locked back in place by re-tightening the T-handle. The masts themselves spins freely, and can typically be

rotated with a single hand.



Solar Panel Assembly: This unit is comprised of weatherproof solar panels at 2,400 watts total. The panels can be deployed and adjusted manually in order to maximize sunlight intake.
Battery/Outlets: The battery bank offers 1,600aH at 24V and comes with a 40-amp battery charger. Operators may access the following receptacles on the system: (2) 50-amp twist-lock [120/240V] and (2) 20-amp duplex [120V].
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.
Lighting: The lighting system on this unit is comprised of eight, 120-watt LED lamps producing 86,000 total lumens with a 4,000K color temperature rating. The lights are attached to the end of the telescoping light boom. These floodlights produce a wide flood light pattern capable of illuminating a minimum of 1-2 acres. Each floodlight is securely fastened to the light boom and each lamp includes a support bracket to help maintain lamp stability within its housing. The units are protected by a strengthened glass lens.
LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.
Transport: All system components are secured on a heavy-duty tandem axle trailer. This trailer measures 8'-W x 23' 6"-L x 10' 6"-H. At full deployment, the unit measures 12' 6"-W x 22'-L x 21'-H. This system weighs approximately 8,450 lb.
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)

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**