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SPLT-1.2K-LM21-FM-6X200AH-4X20L-CPR

21.3' Solar LED Light Tower - (4) 300W Panels - (4) 100W LED Lamps - (6) 200aH Batteries

Product ID: 149445

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-1.2K-LM21-FM-6X200AH-4X20L-CPR Solar Light Mast

Light Mast Specs
Tower Length: 21.3`
Materials: 6063 Aluminum Alloy, Steel Canopy
Finish: Anodized Finish
Operation: Manual System
Mast Type: Round
Stages: 4

Quick Summary
21.3` Solar Light Mast
Aluminum Construction
Fully Solar, No Fuel Needed
(4) 1,000lb Outriggers
40 Mph Wind Resistance
Removable Hitch Tongue
(4) 300W Solar Panels

Solar Panel/Battery Specs

Panels: (4) 300 Watt panels

Method of Deployment: Fixed Mount

System Voltage: 24V DC

Battery Bank: (6) 12V 200aH batteries

Battery Capacity: 1,200aH Total / 600aH Usable

Charge Time: 11 Hours
Runtime: 26 Hours
Expected Lifespan: 5-7 Years

Controller Specs
Unit Type: Morningstar PS-30
Battery Voltage: 24V DC
Max. PV Open-Current/Voltage: 30A/60V
Protection: Low Voltage/High Voltage

Max. Battery Charging Current: 30A

LED Light Specs
Unit Type: LED - (4) LED Fixtures
Dimensions: 10.75"-L 4"-H x 3.5"-D
Voltage: 24V DC
Watts: 400W (100W per Lamp)
Lumens: 13,000 (3,250 lm per Lamp)
Efficiency: 130 lm/w
LED Life Expectancy: 50,000+ Hours
Color Temperature: 5,000K
Lighting Configuration: Flood
CRI: >70
Operating Temp Range: -22°F ~+122°F
Materials: 6063 Aluminum Alloy
Insulation: Class I

Trailer Specs
Type: Single Axle
Trailer Dimensions: 147" x 86.5" x 93.7"
Drawbar: Complies w/ US DOT Standards
Outriggers: (4) Manual Leveling Jacks
Tires/Rim Size: 185R/14C
Weight: +-600 lbs
Shipping: Common Freight
Shipping Dimensions: -
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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The Larson Electronics SPLT-1.2K-LM21-FM-6X200AH-4X20L-CPR Solar LED Light Tower offers wide-area illumination in outdoor locations from elevated positions up to 21.3`. This unit features four, 300-watt solar panels, four 100-watt LED fixtures for illumination, six 200aH gel batteries (600aH capacity) and a solar controller. The entire assembly is secured on a single-axle trailer. Constructed of aluminum alloy, the solar light mast provides a runtime of 26 hours per full charge.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS
This solar LED light tower is a portable, powerful lighting solution for outdoor locations. The unit is equipped with four 300-watt solar panels, four 100-watt LED fixtures, six 200aH gel batteries, Morningstar PS-30 controller and a sturdy junction box. All components are mounted on a single-axle trailer. The fixed-mount light mast extends up to 21.3 feet.
LED Fixtures: The SPLT-1.2K-LM21-FM-6X200AH-4X20L-CPR features four, 100-watt LED fixtures for illumination. The LED units operate on 24V DC and provide 13,000 lumens of white light (3,250 lumens per lamp) with a color temperature rating of 5,000K. Constructed of die-cast aluminum, the LED fixtures are suitable for wide-area illumination in outdoor locations.
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.

Light Mast: This telescoping four-stage aluminum light mast from Larson Electronics is designed to allow operators to quickly and safely deploy a reliable lighting system in locations where it must be elevated to heights up to 21.3` for effective coverage. The tower is constructed of round aluminum alloy tubing. The mast is extended to its full height using a manual lifting system. 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.

Solar Panels/Batteries: This unit is comprised of four 300-watt solar panels, with a 30-degree tilt for optimized sunlight exposure. The panels are wired to the solar charger control box which manages the charging system. A 24V DC Morningstar PS-30 controller, with a maximum PV open current/voltage protection of 30A/60V, manages power storage and allocation between the solar panels and batteries. The SPLT-1.2K-LM21-FM-6X200AH-4X20L-CPR features a total of six, 200aH gel deep cycle lead-acid batteries to store power. The power cells come with 600aH usable capacity and an expected lifespan range of 5-7 years.

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 measures 147" x 86.5" x 93.7" and is secured on a single-axle trailer with 185R/14C tires/rims. 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 US DOT regulations.

Applications: Security, monitoring, live events, concerts, law enforcement, military, commercial, industrial facilities, outdoor surveillance, outdoor illumination, remote locations and more.

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: 149445

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- HigResPic1
- HigResPic2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map