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SPLT-.6K-LM20-4XWP600E-DNS-TLR7-M1

20' Solar LED Light Tower - 7.5' Trailer - (2) Panels, (4) Lamps w/ Sensors/Timer - (10) Batteries, BC

Product ID: 280724

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-LM20-4XWP600E-DNS-TLR7-M1 Trailer Mounted Solar Mast

Mast Specs

Tower Length: 20'
Stages: 5
Capacity: -
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (1) Manual Hand Crank Winch
Mast Cable: 3/16" Galvanized Aircraft Cable

Summary

20' Mast
Steel Construction
Powder Coated Finish
125 mph Wind Resistance
Manual or Optional Electric Operation
Fully Solar, No Fuel Needed
Removable Mast Head
IP68 Waterproof/Vapor Proof LED Lights
Adjustable LED Light Heads (Rotation/Tilt)
Lamps ETL Approved for Wet Locations

Solar Specs

Panels: (2) 300W Panels
Method of Deployment: Fixed Mount
System Voltage: -
Battery Type: (10) 40 aH Lithium-iron Phosphate Batteries - Equivalent to (4) 4D AGM Batteries
Battery Bank Capacity: 400 aH
Battery Charger: 120V
Charge Controller: 40 aH

LED Light Specs

Lamp Qty: (4)
Lamp Type: LED
Voltage: -

Total Watts: 240W
Single-lamp Watts: 60W
Total Lumens: 21,600 lms
Single-lamp Lumens: 5,400 lms
LED Life Expectancy: 50,000+ hours
Color Temp: 5600K
Color Rendering Index: 80
Beam Angle: 60° Vertical, 75° Horizontal
Lighting Configuration: Flood Beam
Sensor Type: Day/Night Sensor
Switches: On/off for Individual Light Heads
Operating Modes: Timer, Day/Night Sensor, Manual On/off
Ambient Operating Temperature: -50°C to +70°C
Materials: Cast Aluminum Housing, Polycarbonate Lens
Mounting: Adjustable Tower - Light Heads Individually Adjustable

Trailer Specs

Materials: Steel

Trailer Dimensions: 7.5`L` x 7`W Trailer Bed - 10.75` Total Length

Hitch: NATO Pintle Hitch, Capable of Being Attached to a Standard Joint Light Tactical Vehicle (JLTV)

Wiring: 7-Pin Flat

Axle: 3,500 lb

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

Leveling Jacks: (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: -

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 Larson Electronics SPLT-.6K-LM20-4XWP600E-DNS-TLR7-M1 Solar LED Tower provides a safe and effective way for operators to quickly deploy LED lights to elevations up to 20 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 storing the four LED light fixtures when not in use. Equipped with lithium-iron phosphate batteries, the entire assembly is mounted onto a 7.5` single axle trailer, allowing operators to transport this solar light tower from location to location.

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

The SPLT-.6K-LM20-4XWP600E-DNS-TLR7-M1 offers a reliable method to illuminate remote locations and outdoor sites with solar-powered LED lights. This system features a 20` telescoping mast, two 300-watt solar panels, 400 aH battery bank, battery charger, charge controller and four adjustable LED lights with day/night sensor + timer. All system components are secured to a trailer for seamless transportation.

Operation:

- (2) 300W solar panels
- (10) 40 aH lithium-iron phosphate batteries
- (4) LED lights with day/night sensor + timer
- (1) 120V battery charger
- 40aH charge controller
- All system components secured to a 7.5` trailer w/ NATO pintle hitch, capable of

being attached to a standard Joint Tactical Vehicle (JLTV)

LED Light Fixtures: This solar light plant is equipped with four, 60-watt high output LED light fixtures. Each unit offers 5,400 lumens during use (21,600 total lumens). The mounting assembly provides rotation and tilt to allow the user to position the unit as desired. Operating modes include: timer, day/night sensor and manual light operation. For dark sky compliance, an optional glare shield is shipped with this light.

The LED lamp assembly is protected by a shatterproof polycarbonate lens which is secured to the housing with a waterproof seal. A 1/2" waterproof connector provides a secure and sealed power connection point and rounds out this unit`s weather resistant construction.

LED Technology: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. 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 applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

Lamp Control: Each lamp can be powered on/off individually, allowing operators to power one lamp or all four lamps at a single time to fit the required illumination requirements.

PA System: This unit does not have a PA system. We can add a one-way or two-way system upon request and with additional costs.

Router/Wireless 4G Hotspot: The solar LED light tower does not have a router or support wireless connections. We can add these capabilities at an additional cost.

GPS Tracking: This system does not feature GPS tracking (we can add GPS tracking at an additional cost).

LED Strobe: The SPLT-.6K-LM20-4XWP600E-DNS-TLR7-M1 does not have an LED strobe light. We can add an LED strobe light (available in different colors) at an additional cost.

Mast: This telescoping five stage steel mast from Larson Electronics is designed to allow operators to quickly and safely deploy equipment in locations where it must be elevated to heights up to 20` for effective coverage. This mast can be extended to 20` above the trailer floor for maximum area coverage, and collapsed for applications where a smaller footprint is required. The tower is constructed of square steel tubing. The mast is extended to its full height using a manual crank 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. 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 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, 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 out from the side of the trailer for added stability. When lowered, the mast can withstand winds up to 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.

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 two solar panels are mounted to a frame angled at 45° to capture the intensity of the sun for optimized light intake.

Batteries: This unit has a battery bank consisting of ten 40 aH lithium-iron phosphate batteries with 400 aH total capacity. The batteries are equivalent to (4) 4D AGM batteries.

Solar Charge Controller: The solar-powered system features a 40aH charge

controller.
Battery Charger: The system has a 120V battery charger. For systems with a battery charger, the component is plugged into the backup generator (if one is available on the model) by default. The battery charger can be unplugged for charging with local power sources.
Inverter: This unit does not have an inverter. We can add one at an additional cost.
Backup Generator: This solar tower does not have a backup generator. We offer models with gasoline, LPG/LNG or diesel backup gensets (may come with additional costs).
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. This unit has a NATO pintle hitch, which is capable of being attached to a standard Joint Light Tactical Vehicle (JLTV). 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 leveling jacks 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.
Applications: Live events, camp sites, construction, outdoor locations, military, commercial, industrial facilities, 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)









SPLT-.6K-LM20-4XWP600E-DNS-TLR7-M1

Product ID: 280724

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

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- HigResPic2
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- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map