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SPLT-.6K-LM30-4XWP600E-ATDS-BC-TLR7-120V-M1

600W Solar Light Tower - 30' Light Tower - 7.5' Trailer - (4) LED Lamps, (2) Panels, (14) Batteries - 12 Hours/Day

Product ID: 272249

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-LM30-4XWP600E-ATDS-BC-TLR7-120V-M1 Trailer Mounted Light Tower

Light Mast Specs

Tower Length: 8.75` to 30`
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (1) 3,500 lbs Manual Winch, Electric Optional
Cable: 3/16" Galvanized Aircraft Cable
Forklift Pockets: On Mast for High Point Access

Solar Specs

Panes: (2) 300W Panels
Method of Deployment: Fixed Mount
System Voltage: 24 Volts
Battery Type: 24 Volt DC Deepcycle Lithium (lifepo4) Battery Banks Comprised of lifepo4 (Sealed, No Maintenance) Batteries
Battery Bank: (14) 80aH 12V Batteries, Wired in Series
Battery Capacity: 1,120aH Total/560aH Usable Battery Bank in 24V
System Runtime: 12 Hours/Day (1.5 Days of Automation w/o Solar or AC Charging)
Battery Charger: 25aH Battery Bank Rapid Charger for Backup via Generator or 20A 120V Power Sources
Cord: 10' 12/3 Cord w/ 20A 5-20P Cord Cap [125V]

LED Lamp Specs

Quick Summary

8.75` 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
A-Frame for mounted (2) 300W Solar Panels
Fully Solar, No Fuel Needed
Waterproof/Vapor Proof Lamps
50,000+ Hour LED Life
Lamps ETL Approved for Wet Locations
IP68 Waterproof Lamps
DOT Compliant Trailer and Lighting
Buy American Act (BAA Compliant)

Lamp Type: CREE LED
Total Watts: 240W
Single-lamp Watts: 60W
Total Lumens: 21,600 lms
Single-lamp Lumens: 5,400 lms
Luminous Efficacy: 90 lm/w
LED Life Expectancy: 50,000+ hours
Color Temp: 5600K, 4000K, or 3000K
Color Rendering Index: 80
Beam Angle: 60° Vertical, 75° Horizontal
Lighting Configuration: Flood Beam
Timer Function: Automated, Timed Interval or Manual Lighting Start/Stop Times (Works Independent from Solar Panels)
Motion Sensor: Passive Infrared Forward Looking Motion Detector (Controls Light Dimming and Load Management - Switches Between 50% and 100%)
Dimming Setting: (2) LED Lights for 50% Power or (4) LED Lights for 100% Power
Ambient Temp Range: -25°C to +60°
Lamp Housing Material: Cast Aluminum
Lamp Lens Material: Polycarbonate

Towable Trailer Specs
Materials: Steel
Trailer Dimensions: 7.5`L` x 7`W Trailer bed - 10.75` Total Length
Hitch: 2" Ball Coupler
Forklift Pockets: On Trailer Base for Low Point Access
Wiring: 7-Pin Flat
Axle: 3,500 lb
Suspension: 3,500 Lb 4-Leaf Double Eye Springs
Stabilizers: Tongue Wheel Jack, 4-corner Jack Stabilizers
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 - Special Requirements
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Made in the USA
The Larson Electronics SPLT-.6K-LM30-4XWP600E-ATDS-BC-TLR7-120V-M1 Solar-powered LED Light Tower provides a safe and effective way for operators to quickly deploy 240 watts of intense LED illumination to elevations up to thirty feet. This solar light plant features a telescoping light tower, 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. This unit has two 300-watt solar panels and a 560aH usable battery bank in 24V. The entire assembly is mounted onto a 7.5` single axle trailer with DOT approved lighting and forklift pockets for low point access, allowing operators to transport this solar light tower from location to location. The SPLT-.6K-LM30-4XWP600E-ATDS-BC-TLR7-120V-M1 includes a 120V battery charger that allows the unit to be charged when local power is available.
PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS
Solar Powered Light Tower: This BAA compliant solar light tower includes two 300-watt solar panels, solar charging system, battery bank and manual crank up mast mounted on trailer with outriggers. This 0.6KW solar generator system replenishes amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. This fully independent off-grid lighting system delivers 24 volts for lighting mounted atop the 30` telescoping light mast. Fully assembled for immediate use, the system provides 12 hours/day operation or 1.5 days of automation without solar or AC

charging.
Light Mast: This telescoping five stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy four LED outdoor lights in locations where this equipment must be elevated to heights up to 30` for effective coverage. This light boom can be extended to 30` for maximum area coverage and collapsed to 8.75` 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 3,000 lbs hand winch with 3/16" galvanized steel cable. Forklift pockets on the mast cater to high point access.
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 equipped LED light fixtures. 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 resistances 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.



44" Mast Head for mounting lights and equipment
Click Image to Enlarge

LED Light Fixtures: This solar light plant is equipped with four of Larson Electronics` LEDWP-600E high output LED light fixtures. The LEDWP-600E consists of six 10 watt LEDs housed within a waterproof aluminum housing that is powder coated for added durability and resistance to corrosion. The housing incorporates integral cooling fins for efficient heat dissipation and increased LED longevity. The LED lamp assembly is protected by a shatterproof polycarbonate lens which is secured to the housing with a waterproof seal. Mounting hardware for the LEDWP-600E consists of a stainless steel coated bracket and stainless steel screws to provide secure mounting and resistance to rust and corrosion. The mounting assembly provides for 360/180 degrees of rotation and tilt to allow the user to position the unit as desired once mounted.
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 individually, allowing operators to power one lamp or all four lamps at a single time to fit the required illumination requirements (two lamps for 50% illumination or all four lamps for 100% illumination). An equipped

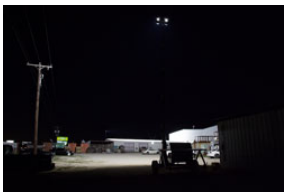
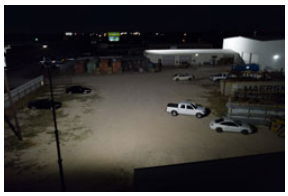
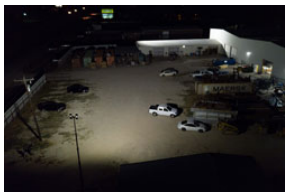
timer enables automated timed interval or manual lighting start/stop functions (works independently from solar panels). This system includes a passive infrared forward looking motion detector to control light dimming and load management, which switches between 50% and 100%.

Images Below Show Light Tower Lowered and Raised to 30ft.






Click Images to Enlarge

Lamps Off (Ambient Light) (4) 60 Watt LED Lamps Turned On Illuminating Wall 200ft. Away (20,000+sq.ft. area)



Area from Above

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.
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.
Battery Bank: This system features fourteen 80aH 12V batteries which are wired in series (560aH usable battery bank in 24V).
Battery Charger: The SPLT-.6K-LM30-4XWP600E-ATDS-BC-TLR7-120V-M1 is equipped with a battery charger that allows the light tower to be charged using a generator or common 120V outlets when local power is available. An included 10` 12/3 cord with a 20-amp NEMA 5-20R 125V cord cap is available for connecting the battery charger to power sources.
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. Forklift pockets on the trailer base are available for low point access. A rugged and waterproof job box is included, safely secured to the trailer. A tongue wheel jack and four-corner jack stabilizers provide safe 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: 272249

Export Control Classification Number (ECCN): EAR99

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