Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

**SPLT-.9K-LM24-4X60WP-GS-AT-BC-M1**

# Solar Light Tower - 30' Tower, 7.5' Trailer - (3) Panels, (4) LED Lamps - (10) LiFePo4 Batteries - Glare Shields

**Product ID: 279387**

**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-.9K-LM24-4X60WP-GS-AT-BC-M1 Trailer Mounted 3-Stage Light Tower**

**Light Mast Specs**
**Tower Length: 13.5` to 30`**
**Mast Head Length: 44"**
**Materials:** Steel
**Finish:** Powder Coated - Gloss Blue
**Operation:** (1) 1,000lbs Hand Winch
**Cable:** 3/16" Galvanized Aircraft Cable

**Solar Specs**
**Panes: (3) 300 Watt panels**
**Method of Deployment: Slider**
**System Voltage: 12 Volts**
**Battery Bank: (10) 40aH LiFePo4 Batteries**
**Battery Capacity: 400aH Total / 400aH Usable**
**Rapid Battery Charger: (1) 120V**
**Runtime: 24 Hours Continuous-run Battery Capacity Backup in Case of Emergency**

**LED Lamp Specs**
**Lamp Qty: (4)**
**Lamp Type: CREE LED**
**Total Watts:** 240W
**Single-lamp Watts:** 60W
**Total Lumens:** 21,600 lms

**Quick Summary**
13.5` to 30` Light Mast
Steel Construction
Powder Coated Finish
Removable Mast Head
(5) 1,000lb Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
(3) 300 Watt Solar Panels w/ Sliders
Fully Solar, No Fuel Needed
Waterproof/Vapor Proof Lamps
50,000+ Hour LED Life
IP68 Waterproof Lamps
Rapid Battery Charger
Auto Timer for Lights
Dark Sky Compliant Glare Shields
Adjustable LED Lamps (Tilt and Rotate)

**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
**Settings:** Auto Timer for Day/night, Motion or Set Timer - Manual On
**Glare Shields:** Included, Dark Sky Compliant
**Ambient Temp Range:** -50°C to +70°
**Lamp Housing Material:** Cast Aluminum
**Lamp Lens Material:** Polycarbonate
**Mount:** Tower - Adjustable Lamp Heads
**Adjustability:** Tilted and Rotated

**Trailer Specs**

**Materials:** Powder Coated Steel

**Trailer Dimensions:** 7.5`L` x 7`W trailer bed - 10.75` total length

**Pintle Hitch:** Lunette Ring

**Tongue:** Removable Towing Tongue for a 4.5' x 7.5' Footprint

**Lifting:** Forklift Pockets and Tie Down Rings

**Wiring:** 7-Pin Flat
**Axle:** 3,500lb

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

**Outriggers:** (5) Manual Crank Leveling Jacks

**Wheels:** (2) 15" 5x4.5 Steel Rims

**Tires:** ST205/75/D15 H188
**Weight:** 3,000 lbs

**Shipping:** Common Freight

**Shipping Dimensions:** 8`-L x 8`-W x 12`-H

**Shipping Weight:** 3,000 lbs

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

**Special Orders - Special Requirements**

Contact us for special requirements

**Intl:** 1-903-270-1187

**Toll Free:** 1-800-369-6671

**Fax:** 1-903-498-3364

**E-mail:** sales@larsonelectronics.com

**The Larson Electronics SPLT-.9K-LM24-4X60WP-GS-AT-BC-M1 Solar Light Tower provides a safe and effective way for operators to quickly deploy intense LED illumination to elevations up to thirty feet. This solar light plant features a telescoping light tower that folds over for easy transportation, a rotating boom that allows for 360° rotation and a removable mast head for storing the four LED light fixtures when not in use. Equipped with dark sky compliant glare shields, the adjustable LED lamps can be tilted and rotated during use. The unit features three 300-watt solar panels and a LiFePo4 battery bank. 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***

This solar light tower includes three solar panels, solar charging system, LiFePo4 battery bank, 120V rapid battery charger, four LED lamps with dark sky compliant glare shields and manual crank up mast mounted on trailer with outriggers. The 0.9 kW solar generator system offers 24 hours of continuous-run battery capacity back-up in case of emergency. This system delivers 12 volts for lighting mounted atop the 30` telescoping light mast.

**Light Mast:** This telescoping three stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy four LED light heads in locations where this equipment must be elevated to heights up to 30` for effective coverage. This light boom can be extended to 30` 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 1,000lb 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 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 resistance and aesthetics.
The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. Five 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



Mast folds over for transportation and when not in use
Click Image to Enlarge

**LED Light Fixtures:** This solar light plant is equipped with four LED fixtures. Each light assembly consists of six LEDs paired with high purity specular optics to produce wide light distribution overpowering that of a 500-watt quartz flood light. This light is constructed of three angled boards that helps provide a wider spread. Instead of the light only shining forward, the center board is concentrated to go straight out while the boards on the side are 45° offset. The LED light is designed to withstand demanding conditions and is waterproof, vapor proof, and built to resist the damaging effects of an outdoor environment.
Dark sky compliant glare shields are included with the LED lamps. This component helps reduce light glare and stray lighting in the surrounding area or nighttime environment. The LED lights can also be tilted and rotated for accurate beam placement over the area.
**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.
**Durability:** The lamps consist of six 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. A 1/2" waterproof connector provides a secure and sealed power connection point and

rounds out this unit`s weather resistant construction.
**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. An equipped automatic timer for day/night sensor, motion and timed settings can be configured for specific operations. Manual on/off is also possible.

---

**Solar Panel Assembly:** This unit is comprised of three 300-watt solar panels, generating a total maximum output of 0.9 kW. The panels are mounted securely on a sliding assembly. During deployment, the top solar panels slide out to form a three-panel array for maximum exposure to sunlight. The panels are wired to the solar charger control box which manages the charging system. When in use, the four solar panels are angled at 45° to capture the intensity of the sun for optimized light intake.
**Batteries:** The solar unit contains a battery bank that consists of ten, 40aH LiFePo4 batteries for a 400aH battery bank (400aH usable) when wired for 12V system voltage.
**Battery Charger:** This system comes with a 120V rapid battery charger, which can be plugged into a local wall outlet during use, such as prior to deployment or when local power is available at the remote site.
**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 weighs approximately 3,000 lbs. and is mounted to a 7.5` by 7`, single axle trailer via six 1/2" anchor bolts. The two wheel, powder coated steel trailer is equipped with 3,500 lbs axle and leaf springs with 15" trailer tires. Lunette ring pintle pitch, two standard safety chains, and 7-pin flat trailer plug allow for easy hookup and towing. Forklift pockets and tie down rings on the trailer are available for lifting or shipping. The trailer tongue can be removed for long term deployment and a 4.5` x 7.5` footprint. A rugged and waterproof job box is included, safely secured to the trailer. Five outriggers allow operators to level the trailer and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.
**Applications:** Remote work locations, construction sites, military bases, camping sites, outdoor events, security applications, emergency services, outdoor lighting, portable lighting 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.

---

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

# Frequently Asked Questions (FAQ)



**SPLT-.9K-LM24-4X60WP-GS-AT-BC-M1**

**Product ID: 279387**

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**SPLT-.9K-LM24-4X60WP-GS-AT-BC-M1-Color Temp**

**Example: SPLT-.9K-LM24-4X60WP-GS-AT-BC-M1-56K**

| Color Temp | |
|---|---|
| 5600K | -56K |
| 4000K | -40K |
| 3000K | -30K |

Links (Click on the below items to view):

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