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SPLT-.53K-LM50.6S-6X200LTL-ISGG-TLR7

12'-50' Solar Light Tower - 7.5' Trailer - (6) 240W LED Lamps - Backup Gas Generator

Product ID: 237949

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-.53K-LM50.6S-6X200LTL-ISGG-TLR7 Trailer Mounted 6-Stage Light Tower

Light Mast Specs
Tower Length: 12` to 50`
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (2) 2,500 lbs Hand Winches, Electric Optional
Cable: 3/16" Galvanized Aircraft Cable

Solar Specs
Panes: (2) 265 Watt panels
Method of Deployment: Fixed Mount, 45° angle
System Voltage: 12 Volts stepped up to 120V
Battery Bank: (2) 12V 250aH 8D batteries
Battery capacity: 500aH Total / 250aH Usable

LED Lamp Specs
Lamp Type: CREE LED
Lamp Qty: (6)
Single-lamp Dimensions: 18 "-L x 13"-W x 8.23"-D
Voltage: 120-277V AC
Total Watts: 1,440W
Single-lamp Watts: 240W
Total Lumens: 194,400 lms
Single-lamp Lumens: 32,400 lms
Luminous Efficacy: 135 lm/w

Quick Summary
12` to 50` Light Mast
Steel Construction
Powder Coated Finish
Removable Mast Head
(4) 1,000 lbs Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
A-Frame for mounted (2) 265 Watt Solar Panels
Fully Solar, No Fuel Needed
Waterproof/Vapor Proof Lamps
50,000+ Hour LED Life
IP67 Waterproof Lamps

LED Life Expectancy: 50,000+ hours
Color Temp: 5000K or 4000K
Beam Configuration: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood
Amps: 12A @ 120V, 6A @ 240V, 5.19A @ 277V
Ambient Temp Range: -40°C to +80°
Materials: Die Cast Aluminum Housing, PMMA Optics

Generator Specs
Dimensions: 26" x 22.4" x 28.4"
Weight: 224 lbs
Engine: 420CC 15 HP OHV
Rated Power: 7,000W output, 9,000W peak
Fuel Capacity: 6.5 gallons
Starting System: Recoil & Electric

Trailer Specs
Materials: Steel
Trailer Dimensions: 7.5`L` x 7`W trailer bed- 10.75` total length
Hitch: 2" Ball Coupler
Wiring: 7-Pin Flat
Axle: 3,500lb
Suspension: 3,500 Lb 4-Leaf Double Eye Springs
Outriggers: (4) 1,000 Manual Crack Leveling Jacks
Wheels: (2) 15" 5x4.5 Steel Rims
Tires: ST205/75/D15 H188

Shipping Specs
Weight: +-1000 lbs
Shipping: Common Freight
Shipping Dimensions: 8`-L x 8`-W x 12`-H
Shipping Weight: +-1000 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-.53K-LM50.6S-6X200LTL-ISGG-TLR7 solar powered LED light tower provides a safe and effective way for operators to quickly deploy 1,440 watts of intense LED illumination to elevations up to fifty 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, a backup generator to help charge the batteries when sunlight is unavailable and a removable mast head for storing the six LED light fixtures when not in use. This unit features two 265-watt solar panels and a 500-amp capacity battery bank. The entire assembly is mounted onto a 7` 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

Solar Powered Light Tower: This solar light tower includes two solar panels, solar charging system, battery bank, a backup generator and manual crank up mast mounted on trailer with outriggers. This 0.53KW solar generator system replenishes 350 amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. This system delivers 120 volts for six, outdoor LED lamps mounted atop the 50` telescoping light mast.

Light Mast: This telescoping six-stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy six LED light heads in locations where this equipment must be elevated to heights up to 50` for effective coverage. This light boom can be extended to 50 feet for maximum area coverage

and collapsed to 12 feet for applications where a smaller footprint is required. The tower is constructed of square aluminum tubing with a base stage 9.15` in length and 8" x 8" by 1/4" thick, second stage 9.46 in length and 6" x 6" by 3/16" thick, third stage 9.77` in length and 5" x 5" by 3/16" thick, fourth stage 10.08` in length and 4" x 4" by 3/16" thick, fifth stage 10.40` in length and 3" x 3" x 1/8" thick, and a sixth stage 10.81` in length and 2" x 2" by 1/8" thick. Each section has a 15-18" overlap. The mast is elevated using an included 2,500 lbs hand winch with 3/16 inch cable and extended to its full height using a second 2,500 lbs winch.

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 12`, the mast can withstand winds up to 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.



Click Photo to Enlarge

LED Light Fixtures: This solar light plant is equipped with six, 240-watt Larson Electronics GAU-LTL-250W-LED high output LED light fixtures. During use, the entire system offers 194,400 lumens of light at 1,440 watts. Color temperature options include 5000K or 4000K. The GAU-LTL-250W-LED consists of twenty-four CREE® high output LEDs producing 1,350 lumens each, which are arranged in rows and paired with PMMA high purity optics to produce a well focused 24° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional optics with 10° spot, 38° narrow flood, 60° flood, and 90° wide flood beam spreads. The spot beams are tightly focused and are designed for high elevation mounting to achieve distance, making spot versions ideal for high mast and spots lighting. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights.

Each unit is equipped with a back mount trunnion style mounting bracket that allows the light to be adjusted through 160° of vertical movement. To adjust the unit, the user simply loosens the set screws located on either side of the unit, moves it into the desired position, then re-tightens the screws.

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: An equipped dusk-to-dawn day/night sensor allows for anomalous operation of the light configuration set within the the control center.



Click Photo to Enlarge

Solar Panel Assembly: This unit is comprised of two 265-watt solar panels, generating a total maximum output of 0.53 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.
Backup Generator: This light mast features our GPG-9KW-1P-120.240 backup generator. This generator is powered by a 4-stroke OHV single cylinder engine with a forced air cooling system that runs on gas, and is started by pulling the recoil starter, or with the push of a button using the key less electric start. This genset will automatically kick on whenever the voltage of the battery system falls below 12V. This is useful for times when sunlight is not readily available.
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. 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 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: 237949

Export Control Classification Number (ECCN): EAR99

Options:

SPLT-.53K-LM50.6S-6X200LTL-ISGG-TLR7-Beam Config-Color Temp

Example: SPLT-.53K-LM50.6S-6X200LTL-ISGG-TLR7-10SP-50K

Beam Config	
10° SPOT	-10SP
25° WIDE SPOT	-25WS
40° NARROW FLOOD	-40NF
60° FLOOD	-60F
90° WIDE FLOOD	-90WF

Color Temp	
5000K	-50K
4000K	-40K

Links (Click on the below items to view):

- **HigResPic1**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**