

SPLT-0.6K-LM30-2XWP60E-2XPTZ-2TB-WPP-ISGG-TLR7-M1

30' Solar Light Tower - 7.5' Trailer - (2) LED Lamps w/ Sensor, (2) PTZ Cameras, 2TB NVR - Backup Gas Gen - LTE

Product ID: 242718

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-0.6K-LM30-2XWP60E-2XPTZ-2TB-WPP-ISGG-TLR7-M1 Trailer Mounted 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: (2) 300W 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

Battery Charger: 120V AC

LED Lamp Specs

Lamp Type: CREE LED

Lamp Qty: (2)

Single-lamp Dimensions: W-9" D-3.25" H-6.5"

Total Watts: 120W

Single-lamp Watts: 60W

Quick Summary

13.5` 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) 300 Watt Solar Panels

Fully Solar, No Fuel Needed

50,000+ Hour LED Life

IP68 Waterproof Lamps

Automatic Solar/Generator Power Switching

Dusk/Dawn Light Sensor

(2) PTZ Security Cameras

Embedded Linux Operating System (NVR)

Total Lumens: 10,800 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
Sensor Type: Dusk/Dawn
Ambient Temp Range: -50°C to +70°
Lamp Housing Material: Cast Aluminum
Lamp Lens Material: Polycarbonate

Outdoor Camera Specs

Unit Type: Security Camera
Camera Qty: (2)
Single-camera Dimensions: 14.38" H x 7.12" D
Total Watts: 51 (Max)
Voltage: 24V AC (PoE - 802.3at)
Image Sensor: CMOS
Connectors: 1.0Vp-p, 75 Ohm, BNC
Effective Pixels: 2.1 MP, 1920 x 1080 Resolution
Min. Illumination: 0.02 Lux @ F1.6 AGC On, 0 Lux w/ IR
Electronic Shutter: 1 ~ 1/10,000s
Lens: 4.7-94mm Varifocal Lens
Angle of View: 58.3° (Wide) ~ 3.2° (Tele)
Optical Zoom: 20x
Day/Night: ICR
IR Distance: 492' (850 nm)
Video Framerate: 1080p @ 30fps
Video Offload: MP4
Video Output: (1) BNC
Language: English

Connectivity Specs

Connectivity: LTE
Router: Dual Band - GSM or CDMA Service Providers
Access Point: Built-in

NVR Specs

Device Type: Network Video Recorder
Voltage: 100 ~ 240V AC
Storage Capacity: 2 TB SATA Hard Drive
Channels: 8
Camera Resolution Support: Up to 8MP
Installation Type: Plug and Play
Incoming Bit Rate: 40Mbps
Outgoing Bit Rate: 80Mbps
FPS: 60fps Per Channel
Compression Format: H.265, H.264, H.264 OVC
Recording Modes: Continuous, Schedule, Event, Motion Detection, VCA
Export Format: MP4
Video Outputs: (1) RCA, (1) VGA, (1) HDMI, (1) USB 2.0 (Front), (1) USB 3.0 (Rear)
Two-way Audio Input: 1-ch, RCA
Power Over Ethernet: = 120W, Supported Standards- 802.3af and 802.3at
Alarm Input: 4x (Rear Panel), Camera Dependent
Alarm Output: 1x (Rear Panel), Camera Dependent
Protocols: IPv4, TCP/IP, UDP, HTTP, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, ONVIF, HTTP multipart
Amperage: Max 2A @ 120V, 1A @ 240V
Housing Material: Aluminum
Operating Temp: 14°F ~ 131°F
Dimensions: 15" W x 11.4" D x 1.8" H
Color: Black

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
Receptacles: (3) 5-20R [115V], (1) L6-20R [12V DC]
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
Toll Free: 1-800-369-6671
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The Larson Electronics SPLT-0.6K-LM30-2XWP60E-2XPTZ-2TB-WPP-ISGG-TLR7-M1 solar powered LED light tower provides a safe and effective way for operators to quickly deploy 120 watts of intense LED illumination and two PTZ cameras 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° of rotation, a backup generator with receptacles to help charge the batteries when sunlight is unavailable and a removable mast head for storing the two LED light fixtures when not in use. This unit is equipped with two, 300-watt solar panels and a 500-amp capacity battery bank, as well as a 2TB network video recorder. 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 300-watt solar panels, solar charging system, battery bank, battery charger, a backup generator with receptacles, two LED lights with dusk/dawn sensor, two outdoor security cameras supported by an 8-channel 2TB NVR, LTE connectivity, dual-band router and manual crank up mast mounted on trailer with outriggers. This 0.6KW 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 lighting mounted atop the 30` telescoping light mast.

Key Features:

- Completely independent of any power, connectivity needs
- LTE; built-in access point
- Two PTZ security cameras and LED lights
- Available on-site support for any technical issues
- Capable of maintaining uptime 100%, every day
- On board recording

- Dual-band router (GSM or CDMA service providers)

Light Mast: This telescoping five stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy the two LED light heads and a PTZ camera 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 footprint smaller 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 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.

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LED Light Fixtures: This solar light plant is equipped with two Larson Electronics LEDWP-600E high output LED light fixtures. The LEDWP-600E consists of six LEDs paired with high purity specular optics to produce a wide light distribution overpowering that of a 500 watt quartz flood lights. 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. This LED unit is designed to withstand demanding conditions and is waterproof, vapor proof, and built to resist the damaging effects of an outdoor environment.

The LED lights are 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.

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 is grouped into banks of two, allowing operators to power one bank or both lamps at a single time to fit the required illumination requirements. An equipped dusk-to-dawn day/night sensor allows for anomalous operation of the light configuration set within the the control center.

Outdoor Cameras: Two PTZ security cameras provide operators with crisp 1080p full-HD high resolution images. The 4.7-94mm varifocal lens automatically adjusts focus, providing operators with precise 20x optical zoom levels. Integrated long-range IR LEDs, with a wavelength measurement of 850 nm, enable the day/night cameras to see distances up to 492` under nighttime conditions. The units offload videos in MP4 format and feature H.264 and MJPEG video compression. The IP security cameras are designed to perform in outdoor locations and rainy conditions. The IP66-rated units resist the negative effects of non-corrosive liquids. De-fogging features enable the units to operate in rainy and foggy conditions. The devices are capable of operating in temperatures between -22°F and 149°F.

Network Video Recorder: With multiple recording modes (Schedule, Continuous, Motion Detection and Event) and 2TB of storage, users could capture hours of footage with ease. The remote configurable network recorder features a bit rate of 40Mbps incoming and 80Mbps outgoing at up to 60fps per channel. To maximize storage, the unit supports H.265, H.264, and H.264 OVC video compression. The network recorder is compatible with two-way audio streaming (camera dependent) and includes 9 ethernet ports (RJ-45 interface). During recording, the unit handles the following data: activity log, email notification, event log, event notification, video analytics and event search. This device offloads videos in MP4 format. Cameras hooked up to the device may use power directly via PoE (802.3af / 802.3at) during operation.

This 8-channel video recorder accepts USB mouse and keyboard inputs. The unit is fully capable of being controlled via mouse input only and offers an on screen keyboard for password inputs, eliminating the need for a keyboard if not desired. USB mouse ships standard with the video recorder. USB keyboard sold separately.

Inputs: (1) RCA, 4 Sensor Inputs

Outputs: (1) RCA, (1) VGA, (1) HDMI, (1) USB 2.0 (front), (1) USB 3.0 (rear)

Connectivity: The SPLT-0.6K-LM30-2XWP60E-2XPTZ-2TB-WPP-ISGG-TLR7-M1 operates with LTE. This system is also equipped with a dual-band router that accepts GSM or CDMA service providers. Built-in access point enables devices to connect to the Wi-Fi network. Larson Electronics offers Wi-Fi repeaters for extending the output range of the Wi-Fi signal (additional cost).



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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.

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. Available receptacles include: (3) 5-20R AC for 115V equipment and (1) L6-20R for 12V DC equipment. A 120V AC battery charger is accessible for plugging into grid power, when it is available. This genset will automatically kick on whenever the voltage of the battery system falls below 12V. This is useful for times when sunlight is insufficient.

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.

Frequently Asked Questions (FAQ)











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Product ID: 242718

Export Control Classification Number (ECCN): EAR99

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