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**SPLT-1.2K-LM25-EW-3KWGG-BC**

# 1.2 kW Solar Equipment Tower - 25' Mast, Electric Winch - 7.5' Trailer - 240aH Lithium-ion Battery Bank, 3kW Gas Generator, BC

**Product ID: 319263**

**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-1.2K-LM25-EW-3KWGG-BC Trailer Mounted 5-Stage Solar Tower**

**Mast Specs**

**Tower Length: 25`**
**Stages: 5**
**Mast Head Length: 44"**
**Materials:** Steel
**Finish:** Powder Coated - Blue
**Operation:** Electric Winch
**Cable:** 3/16" Galvanized Aircraft Cable

**Solar Specs**

**Panes: (4) 300 Watt Panels**

**Method of Deployment: Slider**

**System Voltage: 24 Volts**

**Solar Charge Controller/Energy Management: Included**

**Battery Bank: 240aH Lithium-ion Batteries**

**Battery Capacity: 240aH Total / 240aH Usable**

**Battery Charger: Included**

**Gas Generator Specs**

**Unit Type:** Gas-powered Generator

**Quick Summary**

25` Mast
Steel Construction
Powder Coated Trailer
Removable Mast Head
(4) Leveling Jacks
125 mph Wind Resistance
Electric Operation
(4) 300 Watt Solar Panels w/ Sliders
Fully Solar, No Fuel Needed
Backup Gas Generator

**Rated Power:** 3,500W

**Fuel Capacity:** -

**Starting System:** Recoil & Electric

**Autostart:** When Battery Bank Reaches Below 30% Capacity

**Trailer Specs**

**Materials:** Steel - Powder Coated white

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

**Accommodation:** Accepts Standard Class II Drawbar and Hitch Pin for Tandem Towing

**Tongue:** Steel w/ Removable Hitch Pin for Pivoting Upwards in Storage

**Coupler:** Adjustable Height Coupler Mount - Accepts 2" Ball or 3" Pintle Ring Coupler w/ 5,000 lbs Minimum Capacity Rating

**Axle:** 2,500lbs Load Capacity

**Suspension:** Independent

**Leveling Jacks:** (4) 2,000 lbs Manual Swivel Screw Leveling Jacks - Pivot Up for Storage

**Wheels:** (2) Wheels - Grease Fittings for Wheel Bearing Lubrication at Axle Wheel Spindles

**Tires:** -

**Tie-down Points:** Yes, for Transport

**Safety Chains:** Yes, w/ Snap-type Hooks

**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**

Contact us for special requirements

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**Made in the USA**

**The Larson Electronics SPLT-1.2K-LM25-EW-3KWGG-BC Solar Equipment Tower provides a safe and effective way for operators to quickly deploy devices to elevations up to twenty-five feet. This mobile unit features a telescoping tower that folds over for easy transportation, a rotating boom that allows for 360° rotation and a removable mast head for storing equipment when not in use. This system features four, 300-watt solar panels and a 240 aH capacity lithium-ion battery bank. The entire assembly is mounted onto a powder coated white, 7.5` single-axle trailer, allowing operators to transport this solar tower from location to location.**

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

**Solar Powered Tower:** This solar equipment tower includes four solar panels, solar charging system, lithium-ion battery bank, battery charger, backup gas generator with autostart, and mast mounted on a powder coated white trailer with leveling jacks. The 1.2 kW solar generator system replenishes amp hours of usable battery capacity per day, assuming peak charging sunlight. This system delivers 24 volts for devices mounted atop the 25` telescoping mast.

The SPLT-1.2K-LM25-EW-3KWGG-BC is supported by a lithium-ion battery pack, equating to 240aH battery capacity (240aH usable). A 120V battery charger provides flexibility during deployment, which allows operators to supply power to the batteries using an external power source. This feature is useful for fast turnaround projects, sustaining extended periods of illumination and remote sites that lack adequate exposure to sunlight.

**Mast:** This 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 25` for effective coverage. This light boom can be extended to 25 feet for maximum area coverage and collapsed for applications where a smaller footprint is required. In a collapsed position, the tower is towable on roads and is capable of clearing standard bridges. The mast is extended to its

full height using an included electric 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 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 with ease 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 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 components can be extended 2` 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.



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

**Solar Panel Assembly:** This unit is comprised of four 300-watt solar panels, generating a total maximum output of 1.2 kW. The panels are mounted securely on a sliding assembly. During deployment, the top solar panels slide out to form a four-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 240aH lithium-ion battery bank, which are more reliable than wet batteries due to no spillage. Compared to conventional SLA batteries, these units are 100% usable and lighter in weight. Over time, this results in lower operating and maintenance costs.
**Battery Charger:** This system comes with a 120V battery charger.
**Backup Gas Generator:** A backup gas-powered 3 kW generator is available on the system, which automatically starts when battery voltage drops below acceptable levels.
**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 has a steel tongue with a removable hitch pin for pivoting upwards during storage and independent suspension. An adjustable height coupler mount is available for accepting a 2" ball or 3" pintle ring coupler (with minimum capacity rating of 5,000 lbs). Safety chains with hooks and accessible tie-down points allow for easy hookup and towing. A rugged and waterproof job box is included, safely secured to the trailer. Four leveling jacks at 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:** 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.

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# Frequently Asked Questions (FAQ)



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**Product ID: 319263**

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

**Options:**

**SPLT-1.2K-LM25-EW-3KWGG-BC-Mast Finish-Winch Voltage**

**Example: SPLT-1.2K-LM25-EW-3KWGG-BC-PCBL-12VDC**

| Mast Finish | |
|---|---|
| POWDER COATED BLUE | -PCBL |
| POWDER COATED BLACK | -PCBK |
| GALVANIZED | -GAL |

| Winch Voltage | |
|---|---|
| 12V DC | -12VDC |
| 24V DC | -24VDC |
| 120V AC | -120VAC |
| 240V AC | -240VAC |

Links (Click on the below items to view):

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