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-1.2K-LM30-800AH-ISDG-BC

1.2 kW Portable Solar Equipment Tower - 30' Mast - 7.5' Trailer - (4) Panels, LFP Batteries/BC - Backup Generator

Product ID: 320792

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-LM30-800AH-ISDG-BC Trailer Mounted 3-Stage Light Tower

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

Solar Specs

Panes: (4) 300 Watt panels

Method of Deployment: Slider

System Voltage: 24 Volts

Battery Bank: (20) 40aH Lithium Iron Phosphate Batteries

Battery Capacity: 800aH Total / 800aH Usable

Backup Generator Specs
Fuel Type: Diesel
Capacity: 5 kW
Auto Start: At Low Battery Levels
Battery Charger: Included
Battery Charger Connection: Generator

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

Leveling Jacks: (4) 1,000 Manual Crank Leveling Jacks

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

Quick Summary
13.5` to 30` Light Mast
Steel Construction
Powder Coated Blue Finish
Removable Mast Head
(4) Leveling Jacks
125 mph Wind Resistance
Manual or Optional Electric Operation
(4) 300 Watt Solar Panels w/ Sliders
Battery Charger

Special Orders - Special Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

Made in the USA

The Larson Electronics SPLT-1.2K-LM30-800AH-ISDG-BC Portable Solar Equipment Tower provides a safe and effective way for operators to deploy devices and equipment at elevations up to thirty feet. This solar mast features a telescoping light tower, a rotating boom that allows for 360° rotation and a removable mast head for storing equipment when not in use. The unit has four, 300-watt solar panels, 800aH capacity battery bank, battery charger and 5kW backup generator. The entire assembly is mounted onto a 7.5` 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

The SPLT-1.2K-LM30-800AH-ISDG-BC is a complete, portable solar-powered system for outdoor and remote locations. This unit consists of a 30' telescoping mast, four 300-watt solar panels, lithium iron phosphate battery bank, backup diesel generator and battery charger. All components are mounted on a single-axle trailer. This system does not come with monitoring plans.

Operation:

- (4) 300W solar panels
- (20) 40aH lithium iron phosphate batteries - 800aH total battery bank/800aH usable
- Battery charger
- Backup diesel generator
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) leveling jacks and vin#

LED Lights: The system does not have LED lights.

PA System: This unit does not have a PA system. We can add a one-way or two-way system upon request and with additional costs.

Router/Wireless 4G Hotspot: The system does not have a router. We can add a router for wireless connectivity at an additional cost.

GPS Tracking: The SPLT-1.2K-LM30-800AH-ISDG-BC is not equipped with GPS tracking. We can add the feature at an additional cost.

LED Strobe: The SPLT-1.2K-LM30-800AH-ISDG-BC does not come with a security LED strobe light. We can add a blue, red or white LED strobe light at an additional cost (combination of colors is also possible).



Click Photo to Enlarge

Light Tower: This telescoping three stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy equipment 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 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 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. The stabilizers can be extended 2` out from the side of the trailer. 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.
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 battery bank that consists of twenty, 40aH lithium iron phosphate batteries for an 800aH battery bank (800aH usable). Compared to conventional SLA batteries, these units are 100% usable and lighter in weight. Over time, this results in lower operating and maintenance costs. An included battery level indicator that provides real-time power monitoring for the battery bank.
Battery Charger: This system comes with a 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. We can add a 220V or 240V battery charger to power additional equipment from the solar tower at an additional cost (portable battery chargers are also available).
Inverter: This unit does not come with an inverter. We can add an inverter to power additional equipment from the solar tower at an additional cost.
Backup Generator: A 5kW diesel generator is available on the system, which serves as backup power when sunlight is insufficient. We offer models with LPG/LNG or gas backup gensets (may come with additional costs). An auto start feature automatically activates the backup generator when the battery bank reaches below 30% capacity. For systems with battery chargers and backup generators, the battery charger is connected to the genset by default. It is possible to unplug the battery charger from the generator for local charging.
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 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. All trailer lighting complies with DOT/FMVSS regulations.
Outriggers vs Leveling Jacks: The solar-powered system features manual-crank leveling jacks. Outriggers help expand the surface area for large equipment or loads. This differs from leveling jacks that are used to stabilize or level systems. Leveling jacks can be mounted to outrigger legs (or the side of the trailer).

Applications: Live events, law enforcement, military, commercial, industrial facilities, remote locations 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: 320792

Export Control Classification Number (ECCN): EAR99

Options:

SPLT-1.2K-LM30-800AH-ISDG-BC-Beam Config

Example: SPLT-1.2K-LM30-800AH-ISDG-BC-10DB

Beam Config	
10°	-10DB
30°	-30DB
60°	-60DB
110°	-110DB
DOWN LIGHT	-DL
TYPE II	-T2
TYPE III	-T3
TYPE IV	-T4
TYPE V S	-T5S
TUNNEL	-TNL
WIDE FLOOD	-WF

Links (Click on the below items to view):

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