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HAL-SPLT-0.76K-500AH-LM30-4X100RD2-DNS

Explosion Proof 5-Stage Solar Light Tower - 13.5'-30' - (4) 100W LED Lamps - (4) 250aH Batteries

Product ID: 147761

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.

HAL-SPLT-0.76K-500AH-LM30-4X100RD2-DNS C1D2 Trailer Mounted 5-Stage Solar 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
Panels: (4) 190 Watt panels
Method of Deployment: Slider
System Voltage: 24 Volts
Battery Bank: (4) 250aH 8D Batteries
Battery Capacity: 1,000aH Total / 500aH Usable

LED Lamp Specs
Lamp Type: AC LED
Total Watts: 400W (100W per lamp)
Total Lumens: 38,000 (9500 per lamp)
Luminous Efficacy: 95 Lm/W
LED Life Expectancy: 50,000+ hours
Color Rendering Index: >70
Beam Angle: 110°
Lighting Configuration: Wide Flood Beam

Ratings/Approvals

Class I Division 2
Steel Construction
Powder Coated Finish
Removable Mast Head
(4) 1,000lb Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
(4) 190 Watt Solar Panels w/ Sliders
Fully Solar, No Fuel Needed
Waterproof/Vapor Proof Lamps
50,000+ Hour LED Life
Lamps ETL Approved for Wet Locations
IP68 Waterproof Lamps
Battery Charger
Auto Timer for Lights
13.5` to 30` Light Mast

Ambient Temp Range: -60°C to +100°
Lamp Housing Material: Aluminum Alloy
Lamp Lens Material: Tempered Glass

Trailer Specs
Materials: Steel
Trailer Dimensions: 10`L x 7`W trailer bed - 13.25` 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
Weight: +-600 lbs
Shipping: Common Freight
Shipping Dimensions: 14`-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 HAL-SPLT-0.76K-500AH-LM30-4X100RD2-DNS from Larson Electronics is a Class I Division 2 Explosion Proof Solar LED Light Tower that provides a safe and effective way for operators to quickly deploy 400 watts of intense LED illumination to elevations up to thirty feet. This solar light plant features a telescoping, 5-stage 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. The unit features four 190 watt Class I Division 2 solar panels and a 1,000 aH capacity battery bank. The entire assembly is mounted onto a 10` single axle powder coated trailer which allows 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 four 190W C1D2 solar panels, (2) Morningstar C1D2 charge controllers that automatically kill the system when the batteries get too low to protect them from damage, (4) 250aH 8D batteries in a 1,000 aH capacity C1D2 battery bank, an explosion proof photocell, a battery level indicator and a manual crank up mast mounted on trailer with outriggers. The 0.76 kW solar generator system recharges the batteries. This system delivers 24 volts for lighting mounted atop the 30` telescoping light mast. The HAL-SPLT-0.76K-500AH-LM30-4X100RD2-DNS is supported by four Class I Division 2 250aH 8D batteries, equating to a 1,000aH battery capacity (500aH usable). A pair of Morningstar charge controllers protect the batteries from damage by automatically killing the system when the charge level of the batteries gets too low. This solar tower can run for up to 30 hours on a single charge and features an explosion proof photocell as well as an explosion proof on/off switch to override the photocell. The photocell promotes safety by turning on outdoor luminaires in critical passageways at night. During operation, the field-installable device activates luminaries at 3 footcandles, while deactivating at 8 footcandles. To prevent accidental tripping, the photocell comes with a 10-second time delay feature. This solar tower also features hydraulic breakers.

Light Mast: This telescoping five-stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy the 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 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. When raised to the full 30`, the mast can handle winds up to 65 MPH.



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 of Larson Electronics` EPLX-HB-100W-RD2-LED-TRC high output LED light fixtures. The 100 watt EPLX-HB-100W-RD2-LED-TRC AC LED light fixture delivers brilliant illumination and robust performance in a convenient space-saving form. A 110° wide flood beam provides crisp, bright light with broad coverage. This pendat mounted fixture measures just 4.24"H and 9.21"OD and features an adjustable light head that allows for a 180° range of movement. To adjust the light head, simply loosen the thumbscrew and move the light head to the desired position and then tighten the thumbscrew to secure the light head.
This explosion proof low bay light fixture utilizes AC LEDs paired with a heavy-duty housing and an advanced heat sink that allows for improved efficiency and thermal performance. By eliminating the drivers associated with DC LEDs, space is freed up for more connective surface, accelerating heat dissipation and increasing durability. The specially designed heat sink allows for greater surface area contact with the air as well as a stronger airflow rate. Because this fixture is created for maximum thermal efficiency, it is ideal for applications in which the ambient operating temperature falls into extreme ranges, especially high heat applications. Furthermore, fewer sub-components also means fewer chances for secondary component failure. The simplified circuit system used within AC LEDs creates greater stability and enhances luminaire lifespan.
The 100 watt EPLX-HB-100W-RD2-LED-TRC is designed to endure the daily wear and tear inflicted by harsh outdoor conditions such as sun, wind, rain, snow and sleet. as well as to withstand the corrosive effects of saltwater spray in marine environments. Durable IP68 rated construction provides protection against the ingress of dust, dirt and humidity and allows this light to withstand the corrosive elements found within marine environments including saltwater spray. The copper free, non-sparking die-cast aluminum alloy housing and tempered glass lens are vibration and impact resistant, and the housing is treated with a coating that

rejects dust and buildup.
LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. 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 is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.
Lamp Control: This solar tower features an explosion proof photocell that automatically turns on the light heads when ambient light levels reach 3 footcandles and turns them off again when light levels reach 8 footcandles. The photocell also has a 10 second time delay feature to prevent accidental activation or deactivation. In addition to the photocell, there is also an explosion proof on/off switch that allows operators to override the photocell when manual operation is desired.
Solar Panels: This unit is comprised of four 190-watt solar panels, generating a total maximum output of 1.06 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.
Solar Panel Durability: The solar panels equipped on this solar tower are designed to withstand rugged, outdoor environments. The frame is constructed of silver anodized aluminum, while the back cover is made out of white polyester for insulation. For extra protection, the front cover is constructed of high transmission glass (1/8" thick).
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 10` 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 1000 lb. 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. The trailer of this solar tower is powder coated for aesthetics and durability and also features skid pockets on the side.
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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Export Control Classification Number (ECCN): EAR99

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