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SPLT-1.2K-400AL-ISDG-BC-R1

Portable Solar Trailer - 7.5' Trailer - (4) Panels, Batteries/BC - Backup Generator

Product ID: 281156

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-400AL-ISDG-BC-R1 Trailer Mounted Solar System

Solar Specs

Panes: (4) 300 Watt panels
Method of Deployment: Slider
System Voltage: 24 Volts
Battery Bank: (10) 40aH Lithium Iron Phosphate Batteries
Battery Capacity: 400aH Total / 400aH 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

Quick Summary

Trailer Lighting Complies w/ DOT Regulations
(4) Solar Panels
Backup Generator
Battery Charger

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

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-400AL-ISDG-BC-R1 Portable Solar Trailer provides a safe and effective way for operators to power equipment in remote, outdoor locations. This solar unit features four 300-watt solar panels, 400 aH capacity battery bank, battery charger and 5 kW backup generator. The entire assembly is mounted onto a 7.5` trailer, allowing operators to transport this solar system from location to location.

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

The SPLT-1.2K-400AL-ISDG-BC-R1 is a temporary solar-powered system for outdoor and remote locations. This unit consists of 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
- (10) 40aH lithium iron phosphate batteries - 400aH total battery bank/400aH usable
- Battery charger
- Backup diesel generator
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) leveling jacks and vin#

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-400AL-ISDG-BC-R1 is not equipped with GPS tracking. We can add the feature at an additional cost.

LED Strobe: The SPLT-1.2K-400AL-ISDG-BC-R1 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

Solar Panel Assembly: This unit has 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 ten, 40 aH lithium iron phosphate batteries for a 400 aH battery bank (400 aH 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 trailer 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 trailer at an additional cost.
Backup Generator: A 5 kW 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)









Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**
- **Wiring Diagram**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**