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SPG530-500AH-24V-110V-TLR10

0.53KW Portable Solar Power Generator - 10' Trailer - 24V 500aH Battery Bank - (1) Job Box, (4) 110V Receptacles

Product ID: 311289



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.

SPG530-500AH-24V-TLR10 Portable Solar Powered Generator Trailer
Panels: (2) 265 Watt Panels
Method of Deployment: -
Battery Bank: (4) 250aH 12V DC Sealed Lead Acid Batteries in Series
Battery Capacity: 1000aH Total; 500aH usable at 24V DC
Output Receptacles: (4) 20A 5-20R Duplex [125V]
Trailer Specs:
Materials: Steel
Trailer Dimensions: 10` L x 7` W Trailer Bed
Hitch: 2" Ball Coupler
Wiring: 7-Pin Flat
Axle: 3,500 lbs
Suspension: 3,500 lb 4-Leaf Double Eye Springs
Outriggers: (4) 1,000 lb Manual Crank Leveling Jacks
Wheels: (2) 15" 5 x 4.5 Steel Rims
Tires: ST205/75/D15H188
Weight: +- 800 lbs
Shipping: Common Freight
Shipping Dimensions: 14` L x 10` W x 5` H
Shipping Weight: +- 800 lbs
Options: Length - Mounting - Fixtures / Call Us for Special Requirements

Quick Summary:
Fully Solar, No Fuel Needed
Steel Construction
Powder Coated Finish
(2) 265 Watt Solar Panels
(4) 1,000 lb Outriggers
3 Day Operation w/ 150W Load

Special Orders - Special Requirements
Contact us for special requirements
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Made in Texas

The Larson Electronics SPG530-500AH-24V-110V-TLR10 portable solar powered generator trailer offers reliable and safe power in remote locations. This portable solar powered generator features two 265-watt solar panels, as well as a 500aH capacity battery bank.

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

This portable solar powered generator trailer comes with four 50aH 12V DC sealed-lead acid batteries in series. The battery bank features a 500aH capacity at 24V DC and is capable of running a 150-watt load for three consecutive days without sunlight. This unit can be deployed quickly to support heavy duty equipment and electronics, such as laptops, communication devices, security cameras, portable lights and more.

Four 20-amp 5-20R duplex 125V receptacles are available for powering 110V equipment.

Solar Charge Controller: In this 24 volt system solar control system, each panel is terminated with a fused combiner box with a single lever action cut-off switch. With the switch set to the 'on' position, the combiner box passes power to the 60-amp capacity TriStar MPPT charge controller. Oddly enough, most charge controllers are not rated past 104 degrees Fahrenheit despite the fact the will always be close to direct sunlight. In the summer time in Texas, our fabrication shop is normally warmer than that, so this solar light tower uses a charge controller that would support the southern heat. We improve on that capability by shading the charge controller and adding additional air flow from the exhaust of a 1400 CFM component cooling system with internal adjustable thermostat.

Solar Panel Assembly: This unit is comprised of two 265-watt solar panels, which provides a combined 24 amps per hour during charging. The panels are mounted securely and can be deployed for easy and safe handling. When stored, the panels lay flat on the trailer. During deployment, the two solar panels are mounted to a frame angled at 45° to capture the intensity of the sun for optimized light intake. The panels are wired to the solar charger control box, which manages the charging system.

Component Control Center: In order to ensure that the 50% threshold on the batteries is controlled, this solar trailer includes a system of min/max voltage sensors that monitor the voltage produced by the batteries and will automatically shut off power distribution when the battery capacity falls below 50%. This protects the batteries from failure. We also include ground fault protection. 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 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.








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Frequently Asked Questions (FAQ)