

**580 Watt Solar Powered Generator - 10' Trailer - (2) 290 Watt Panels - Completely Solar No Fuel Need**

Part #: SPG-0.58K-200A-120V

**Made in the USA**

The Larson Electronics SPG-0.58K-200A-120V solar powered generator provides operators with a way to power lights, camera, and other electrical equipment in remote locations where standard 120V line voltage is unavailable. This unit features two 290 watt solar panels and an 100 amp capacity battery bank. The entire assembly is mounted onto a 10' single axle 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\***

This solar generator includes two solar panels, solar charging system, battery bank and inverter mounted on trailer with outriggers. This 0.58KW solar generator system replenishes amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. This system delivers 24 volts for lighting and other electrical equipment.

**Solar Panel Assembly:** This unit is comprised of two 290-watt solar panels, generating a total maximum output of 0.58 KW. The panels are mounted to a stationary assembly. The panels are wired to the solar charger control box which manages the charging system. A 300 watt DC to AC inverter and a duplex 5-20R receptacle allows operators to power equipment that required 120V AC.

**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 80-amp capacity Outback Extreme charge controller. This solar charge controller system uses the Outback Extreme series since its standard temperature threshold is more than 160 degrees Fahrenheit, due to its integrated heat sink and fan assembly. Oddly enough, most charge controllers aren't rated past 104 degrees Fahrenheit despite the fact they 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.

**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 and relays 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 and an Outback Mate 3 monitoring system to track and log all activities related to the charger controller and battery health. In the event there is an issue with the solar trailer, the SD card can be removed from the Mate 3 and sent to Larson Electronics for analysis.

All the electrical components, including the combiner panel, charge controller, over/under battery monitoring and ground fault isolation 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 component control center also includes a terminal block so that customers can mount additional electronic gear without interfering with the charging systems. 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 6', single axle trailer via six 1/2" anchor bolts. The two wheel trailer is equipped with 5,4000 lbs axle and leaf springs with 15" trailer tires. The trailer can support and haul an additional 3,500 lbs of equipment. A standard 2" ball coupling, two standard safety chains, and 7-pin flat trailer plug allow for easy hookup and towing. A rugged and waterproof job box is included, safely secured to the trailer.

**Specifications / Additional Information****SPG-0.58K-200A-120V Trailer Mounted 580 Watt Solar Generator****Solar Specs****Panes:** (2) 290 Watt panels**Method of Deployment:** Fixed Mount**Panel protection:** Fused combiner box  
**System Protection:** Battery over/under and ground fault**System Voltage:** 24 Volts**Battery Bank:** 2 X 12V 200aH batteries**Battery capacity:** 400ah total and 200ah usable**Inverter:** 300 Watt - 24V DC to 120V AC**Receptacles:** Duplex 5-20R**Trailer Specs****Materials:** Steel**Trailer Dimensions:** 10-L' x 6'-W trailer bed**Hitch:** 2" Ball Coupler**Wiring:** 7-Pin Flat**Axle:** 5,400lb**Suspension:** 5,400 Lb 4-Leaf Double Eye Springs**Outriggers:** (4) 1,000 Manual Crack Leveling Jacks - Retractable**Wheels:** (2) 15" 5x4.5 Steel Rims**Tires:** ST205/75/D15 H188**Weight:** +-1200 lbs**Shipping:** Common Freight**Shipping Dimensions:** 16.5'-L x 4'-W x 5'-H**Shipping Weight:** +-1700 lbs**Options:** Length- Mounting-Fixtures/ Call Us for Special Requirements

3 year warranty replacement on this light mast. The customer ships the failed light mast to Larson Electronics at their expense. If the failure is a manufacturer defect, we will repair and/or replace the unit.

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**Quick Summary**

Steel Construction

Power Coated Finish

(4) 1,000lb Retractable Outriggers

A-Frame for mounted (2) 290 Watt Solar Panels

300 Watt Inverter for 120V Operation

**Special Orders- Requirements**

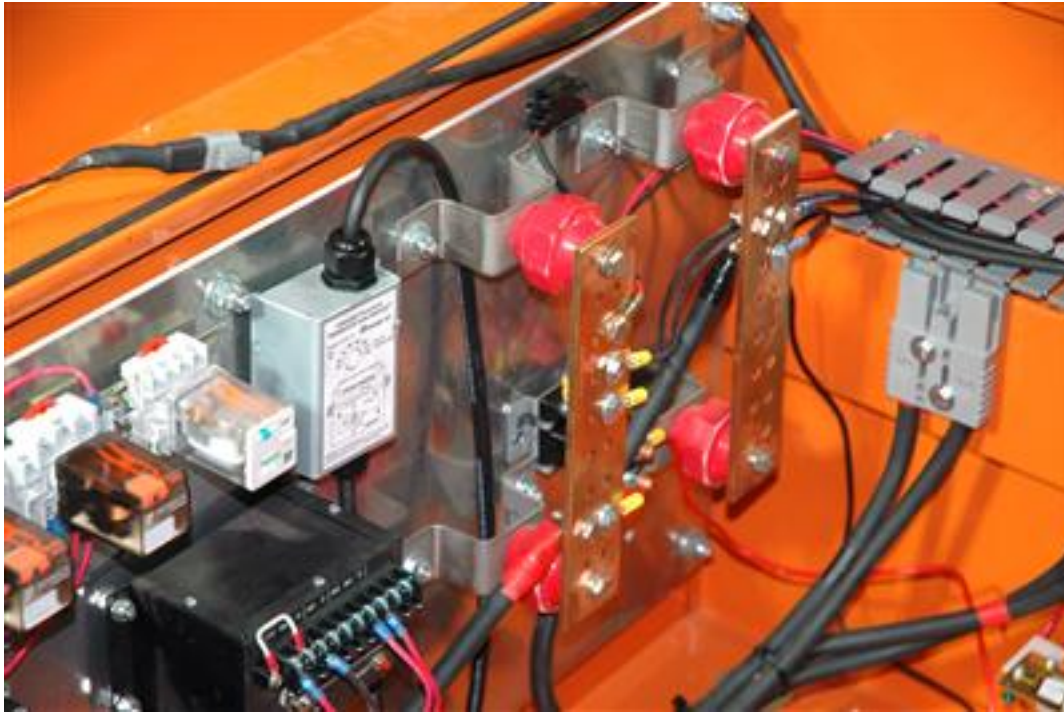
Contact us for special requirements

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