

## Product:

Model SP1500T standard 1500 watt 120VAC/60Hz solar electric system, with a modified sine wave inverter/charger and pulse width modulation (PWM) charge controlling.

## Basic Description:

Solar powered electric system, mounted on a single axle trailer, provides up to 1500 watts 120volt/60cycle of continuous modified sine wave AC power for homes, businesses, workshops, RVs and campers, and construction sites. It can power most common electrical appliances such as lights, refrigerators, computers, televisions, washing machines and power tools. Its surge capacity of 2400 watts gives it the ability to start difficult motor loads.

## Features:

- Two (2) Type B electrical receptacles, mounted in weather protective full-mount enclosure, protected by 20 amp circuit breaker
- Four (4) 6-VDC absorbed glass mat (AGM) deep cycle batteries with Nominal Capacity Ampere Hours @ 25° C (77° F) for 24 hour rate of approximately 178 amp-hours
- Low idle current (less than one watt) conserves energy when no loads are present
- Two 150 watt solar modules, poly-crystalline silicon
- Battery charger integrated into inverter is compatible with generator or grid power
- Solar array mounted on tilt adjustable frame, providing tilt angles from 0° to 60° (approx)
- Lightning arrestor with protection to 60,000 amps
- Trailer has US Department of Transportation (DOT) certified tires, rims, tail lights, fenders, and safety chains

## Options:

- Transfer switch tie-in kit including NEMA L5-20 receptacle with AC breaker, internally mounted transfer switch to control output to Type B or NEMA L5-20 receptacles, and 25 ft marine grade cordset
- 8" spare tire and rim for trailer
- Spare tire cover (vinyl)
- Digital meter for display of volts, amps, and amp hours, viewable from exterior of unit
- 800 lb swing back trailer jack
- Battery temperature sensor (Charge Controller)
- Battery temperature sensor (Inverter/Charger)
- 12 volt DC receptacle
- Aluminum diamond plate protection for the front panel of the trailer enclosure, 12"(H) x 37"(W) x 1/16"(D)

## Specifications:

<b>Electrical Specifications</b>	
Continuous Power (@ 25°C/77°F)	1500 watts
Output Voltage (RMS)	120 VAC
Frequency (nominal)	60 Hz
Continuous Output (@ 25°C/77°F)	12.5 amps AC

5 Sec Rating Surge Capability	2400 watts
1 mSec Surge Capability	38 amps AC
100 mSec Surge Capability	27 amps AC
DC Input Voltage (nominal)	12.6 VDC
DC Input Range	10,8 – 15.5 VDC
Low Battery Protection	11 VDC
Waveform	Modified Sine Wave
Receptacles	2 type B 120 VAC
Lightning Arrestor (max current)	100,000 amps (50,000 amps clamped in 25 nanoseconds)
<b>Solar Array Specifications</b>	
Type	2 Multicrystalline panels
Solar panel maximum power (Pmax)	150 watts each
Voltage at Pmax	35.4 volts each
Current at Pmax	4.8 amps each
<b>Trailer Specifications</b>	
Receiver Size	1 7/8"
Axle Thickness	5 mm
Weight Capacity	860 lbs
Suspension	3 leaf
Tires	4.8" x 8"
<b>General Specifications</b>	
Base Unit Weight	675 lbs (approx – includes trailer weight)
Unit Weight with all options	750 lbs
Dimensions (H x W x L)	54" x 62" x 92" (approx, with panels in horizontal position)

**Note: Specifications subject to change without notice.**

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