

Suntaqe "Power Without Batteries" 300 Watt Pure Sine Wave Inverter Controller

24V, 300W. See more about this product on YouTube at: <https://youtu.be/jXTayFPI6u4>

Model: SUN_24VPS300W

Date: 06/2018

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⚠ WARNING:

All electrical connectors and outlets can be dangerous! Treat the solar and inverter with the same respect as home electricity.

Solar Panel(s) Requirements:

Only 12 or 24 volt solar panels can be used. If using 12 volt solar panels, you must use more than one or the Suntaqe will not operate. Maximum input for the Suntaqe is 66 volts DC, minimum input is 30 volts DC. Check the label on your solar panel and go by the greatest voltage listed to determine if it can be used. Follow the included diagrams for proper layout and more information.

AC Power Inverter produces 120 volts AC! Do not allow the unit to get wet, modify it, block any vents, or attempt to plug it into an outlet. Do not attempt to power up the DC side of the inverter with any power source. Try to keep inverter out of direct sunlight or in a very small compartment.

Operation:

The Suntaqe 300 should not be used to operate critical loads like medical devices or refrigeration as the output WILL intermittently cycle ON and OFF without notice.

Recommendations & Procedures:

- Allow lots of fresh air flow around the Suntaqe unit and avoid direct sun.
- Turn OFF the power switch to inverter before hook up to the solar or AC device. Turn on after all connections are made.
- Follow the diagram for hookup. Connect your positive (+) and negative (-) to the Suntaqe unit's positive (+) red sticker and negative (-) black or no sticker.
- Tilt your solar panels directly at the sun with NO shaded cells. For maximum results, the panels should follow the sun throughout the day.
- You will notice a 10-40 second delay minimum before the inverter resumes output. This is a normal cool down operation for each shut down.
- You should not expect to operate a 250 watt item with a 250 watt solar panel. You will more likely operate a 200-230 watt item more continuously as the panel may not be at 100% efficiency during sunlight hours.
- If your item immediately shuts down, the solar panel is not receiving enough direct light, is partly shaded, or your item requires more power than the panel can produce. If this is the case, you may add more solar panels in parallel to compensate.
- If the Suntaqe shuts down when there is plenty of sunshine on it, the inverter may be overheating. If this is the case, try to get more ventilation to the inverter or cooler compartment.
- The best time to check the operation is during solar noon with no shading.
- If you would like to find out the watts of your AC appliance multiply the volts X amps = watts.
Example: 120 volt AC fan that uses 0.5 amps you would calculate as 120 volts X 0.5 amps = 60 watts
- Turn OFF the power inverter switch and shade the solar panels before plugging/unplugging the solar panels into the Suntaqe unit!

Warranty Information:

Our Suntaqe Inverter Controllers carry a 90 day full parts and labor, repair or replacement warranty. Should these controllers fail during normal use, we will repair or replace the unit at our expense. Should your controller fail after the warranty period has expired, we offer what we believe is a reasonable repair rate - \$35.00 flat rate repair. Should the controller fail, we will repair or replace it for \$35.00 plus shipping.



Blow Hard + Shine Bright

332 Cobble Stone Drive, Seymour, MO 65746
www.mwands.com • (417) 708-5359

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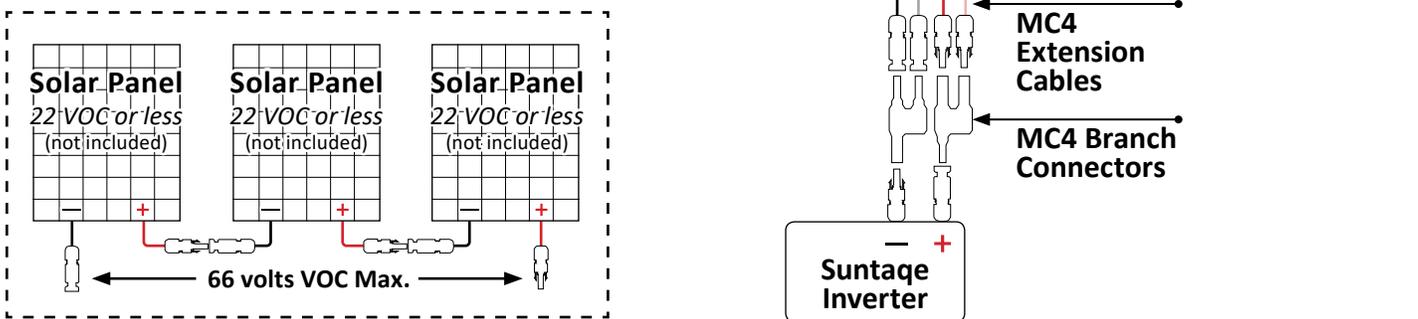
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12 Volt Solar Panel Wiring

The panels are connected in series, then in parallel to the other two panels (total of 4 panels). Continue series/paralleling configuration for more power.

These panels are in series. Maximum of three panels allowed. Do not exceed 66 volts.



24 Volt Solar Panel Wiring

The parallel wiring keeps the output voltage of panels the same as one. 24 volt solar panels have a high voltage of 36 to 44 volts VOC listed on the label. Do not use 48 volt panels. If you add more panels, make sure to connect them in parallel only or voltage will be too high, damaging the unit.

You will need to use one set of branch connectors for every panel added.

