

Suntaqe "Power Without Batteries" 150 or 180 Watt Pure Sine Wave Inverter Controller

12V, 150W or 12V, 180W. See more about this product on YouTube at: <https://youtu.be/jXTayFPI6u4>

Model: SUN_12V100,
SUN_12VPS180W

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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 volt solar panels can be used. Maximum input for the Suntaqe is 34 volts DC. Check the label on your solar panel and go by the greatest voltage listed to determine if it can be used. You may use multiple 12 volt solar panels together that are of a different size and power (in a parallel configuration only). Follow the included diagrams for proper layout and further 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 150 and Suntaqe 180 should not be used to operate critical loads like medical devices or refrigeration as the output WILL intermittently cycle ON and OFF without notice. Some cordless drill battery chargers may not operate correctly with the Suntaqe 150 only. Please monitor them for things like over-heating the battery. If any battery you are charging has a plug-in DC power supply it may then operate correctly.

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. This may also happen once on start up.
- You should not expect to operate a 100 watt item with a 100 watt solar panel. You will more likely operate a 60-80 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

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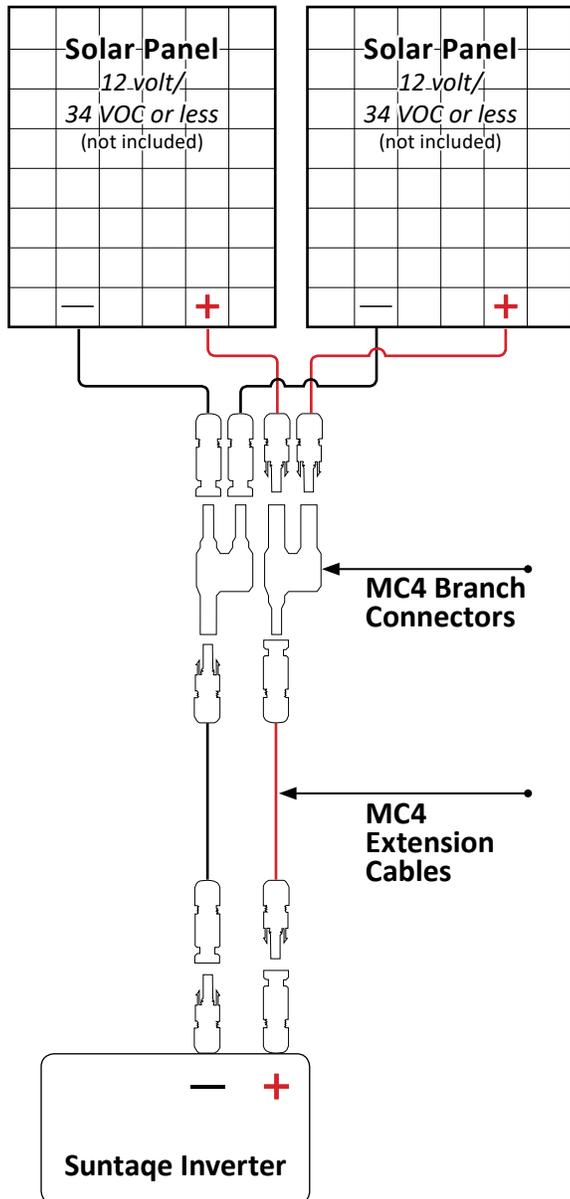
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Correct Parallel Solar Panel Wiring

This wiring configuration provides the correct low voltage input method.



Incorrect Series Solar Panel Connection

DO NOT WIRE PANELS IN SERIES!!

This wiring configuration shows the incorrect high voltage method. Connecting your solar panels to the Suntaq Inverter Charger will damage the unit and void the warranty.

