



WALMER ENERGY

36v solar panel





Overview

Can You charge a 36 volt battery from a solar panel?

A company called Genasun makes boost charger controllers for golf carts that can charge a 36 volt battery from a panel with lower than 36 volt output. I have a similar need, charging a 36v golf cart out of solar power. I found in my garage 3 old panels that seem to be in good shape. My tester shows 12.3 Volts (open circuit).

What is a 36 cell solar panel?

A 36 cell solar panel is called a 12V “nominal” panel, as it is designed to charge a 12V battery. Similarly, a solar panel with twice as many cells, 72 cells, outputs about 36 volts, and it is great for charging a 24V battery bank. So, it is called a 24V nominal solar panel.

What happens if you convert 36V solar panels to 18V?

Keep in mind that the voltage drop over a diode is about 1.4 volts, so if you convert from 36 volts to 18 volts, there will be a loss of about 5.2 volts per panel. What are the advantages and disadvantages of converting 36v solar panels to 18v?

How many volts can a 36-cell solar panel produce?

The more cells that are wired in series, the higher the voltage. A 36-cell solar panel wired in series produces about 18 volts. This makes it perfect for charging a 12V battery bank, as you need a higher voltage to charge a battery.



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