

This follow-up blog post has links to all of my video presentations on this project: initial prototype demo, conversion and modification of a space heater to PV DC operation, and now Part 3 ...

We've resolved to use a regular Rheem hot water heater but swapping out the AC elements with Dernord 12v 600w DC elements on Amazon. Two of these powered directly by two ...

Connecting photovoltaic panels to heating elements requires more than just basic electrical knowledge - it's about creating an efficient marriage between solar harvesting and thermal conversion. Let's break ...

I've also seen some designs that combine a PV module with a heat exchanger on the backside that water is pumped through to provide low temperature preheating for water.

In this video I address some of the safety concerns in running my converted space heaters directly off of DC Solar Photovoltaic power. AC heaters are unsafe to run off of DC without...

About 5 years ago I installed a 3 panel solar hot water heating system that runs glycol on the roof of my house after investigating a PV hot water heating system.

Yes, solar panels can be used to directly heat a house by wiring them to compatible DC heating systems like radiant floor heaters. This provides supplemental heat, reducing conventional ...

I made this detailed video for beginners who want to try using DIRECT DC solar panel feeds to heat their home, shop or office.

Hi folks, I'm going to briefly cover some concepts that are helpful to understand when driving loads directly with PV DC solar panels: whether it is a fan, a heating element, an electric ...

Heating water directly using a DC water heating element together with either a wind turbine generator or photovoltaic panel (with or without a battery bank) is commonly used in diy solar ...

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