Converter for solar system

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As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

We won"t charge you anything to get quotes through our marketplace. Instead, installers and other service providers pay us a small fee to participate after we vet them for reliability and suitability. To learn more, read about how we make money, our Dispute Resolution Service, and our Editorial Guidelines.

When you install a home solar panel system, the panels are just one piece of the puzzle. Another very important piece is the solar inverter--without it, you wouldn"t be able to use any of the electricity your solar panels produce.

A solar inverter converts the direct current (DC) electricity that solar panels produce into the alternating current (AC) electricity that our appliances run on. There are several types of solar power inverters and not all of them are made equal. We"ll help you understand how solar inverters work and the different types available so you can choose the right one for your system.

Solar inverters convert the DC electricity your solar panels produce into the AC electricity that powers our everyday devices. If you thought all electricity was the same, you"re certainly not alone, but let"s back up a second:

Direct current power flows in one direction. The voltage also remains constant. This allows it to be stored--so if you pair a battery with your solar panel system, the electricity it stores will be DC.

Alternating current power is constantly switching direction. The voltage also fluctuates in a sinusoidal (basically a wave) pattern. So, AC electricity can more easily meet the power needs of all the various appliances throughout your home.

Devices called transistors rapidly switch on and off. When the DC power reaches a transistor that"s off, it"s forced to change direction.The back-and-forth eventually "tricks" the DC power into becoming AC.

The AC electricity flows from the inverter to your house"s electric panel. If you don"t need that electricity, it will either go to the grid or your battery, if you have one. Either way, it"s primed and ready to power our everyday needs.

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If you pair your solar system with energy storage, the electricity flow will work differently depending on whether you have an AC- or DC-coupled battery system.

All energy is stored in DC format. With an AC-coupled system, the DC solar electricity flows from your panels to the solar inverter to become AC electricity. Extra electricity not used for your appliances flows to a separate storage-only inverter, which converts it back into DC power. When you need power from your battery, the stored electricity will be sent back through your storage-only inverter--three total inversions before it"s used.

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