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Title: Installation of courtyard solar inverter

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What is a solar panel inverter?

In simple terms, it's the brain of your solar power system. Solar panels generate direct current (DC) electricity, but your home appliances run on alternating current (AC). The inverter's job is to convert that DC power into usable AC power for your home. Let's get into the core of installing your solar panel inverter.

How do I install a solar inverter?

**Ensure Stability:** Check that the structure can withstand wind and weather conditions. **Attach Panels:** Secure the panels to the mounting structure with clamps. **Connect the Panels:** Wire the panels in series or parallel based on your system voltage requirements. **Run the Cables:** Use UV-resistant cables to connect the panels to the inverter.

How does a solar inverter work?

Solar inverters convert the direct current (DC) produced by solar panels into alternating current (AC), which powers your appliances. Inverters come in sizes ranging from 2.5kVA for residential setups to 40kVA for large-scale systems. As shown above, for this installation, we used 3 pieces of Felicity 10KVA inverters.

How to choose a solar panel inverter?

First things first, you need to select the appropriate inverter for your solar panel system. There are three main types: 1. **String inverters:** These are the most common and cost-effective option for residential use. 2. **Microinverters:** Installed on each individual panel, they're great for complex roof layouts or partially shaded areas.

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