Inverter for pv system

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Solar energy doesn"t provide electricity in a format that your table lamp could be powered by. Inverters change the power produced by your solar panels into something you can actually use.

Think of it as a currency exchange for your power. You might have a fistful of yen, but until you stop and exchange it for USD, you can"t pay for lunch stateside.

Your home is wired to conduct alternating current (AC) power. The electricity produced by solar panels is initially a direct current (DC). Inverters change the raw DC power into AC power so your lamp can use it to light up the room.

Inverters are incredibly important pieces of equipment in a rooftop solar system. There are three options available: string inverters, microinverters, and power optimizers.

This is a standard inverter, and it works just fine if you don"t have any encroaching shade from nearby trees or a big chimney. It"s also great if you have all of your solar panels facing the same direction.

Microinverters are small units built into each individual solar panel that convert power. Think of it as having mini currency exchange stations on every nearby street corner.

This gives each panel the ability to function at peak performance, independent from its neighbors. Even if the panel next to it has a tree branch shading it for most of the day, all the other panels can convert at full capacity. Any drop in efficiency only affects one panel.

Microinverters also enable you to monitor the performance of each individual panel. This is helpful for spotting any issues with a single panel so you can have it repaired before it slows down the whole system"s productivity.

Microinverters also make it easy to increase power usage if you want to. Say you buy an electric car and you"ll need more power to charge it every night. Adding more solar panels and inverters is easier and less expensive than adding an additional central inverter for a string inverter system.

As with micro-inverters, power optimizers have a component (the “optimizer”) underneath and within each solar panel. But rather than change the DC to AC right there on site, these inverters optimize the current before sending it to one central inverter.

This is more efficient than a string inverter, as any sluggish production from one panel doesn"t slow the whole system, but more cost-efficient than a standard micro-inverter setup.

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Imagine being able to cut to the front of the line at the currency exchange office. It"s not quite as quick or convenient as having your own exchange office a few steps from your home, but there"s no waiting around once you get to the central office.

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