Solar panel installation equipment

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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:

Sourced the majority of our data from hundreds of thousands of quotes through our own marketplace.

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

Built our own database and rating system for solar equipment, including solar panels, inverters, and batteries.

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.

To go solar, you"ll need solar panels, inverters, racking equipment, and performance monitoring equipment--at a minimum. Depending on where you live, you may also consider a solar battery.

The components of a solar panel system are pretty simple. But different product options and brands can sometimes make the equipment selection process feel complex and confusing. We"ll break down everything you need to know about solar equipment to prepare you.

You need solar panels, inverters, racking equipment, and performance monitoring equipment to go solar.

You also might want an energy storage system (aka solar battery), especially if you live in an area that doesn"t have net metering.

Your primary equipment decision is the brand and type of panels for your system. For an easy guide to comparing and contrasting the top panel brands, check out our complete ranking of the best solar panels on the market, which puts panels from SunPower, REC, and Panasonic at the top.

Some factors to consider as you weigh your options are efficiency, cost, warranty, and technology type. Solar panels will generally be categorized as one of two technologies: monocrystalline and polycrystalline. Both types have the same function and are made from silicon cells, but the outward appearance and price differ significantly. Monocrystalline panels are more efficient and expensive and come with a dark blue or black tint. Polycrystalline panels are a lighter blue hue, the cheaper and less efficient option.

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Generating rooftop solar energy is a simple process in which solar panels convert sunlight into direct current (DC) power that can be delivered to a home"s power system. However, most homes and businesses are wired to use alternating current (AC) power. That conversion from DC to AC is where inverters come into play, and there are several options to compare:

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