



Solar cell 40 kWh

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Getting your own solar system is like acquiring a great business asset and making a smart long-term investment. In this section of our website you can find a 40kW solar system of your preference. A PV installation is more than just solar panels though, and the components should match to function well together. We offer systems where all the parts are sized perfectly to work as one entity.

PV systems of a large scope are usually ground-based grid-tie installations. Grid-tie configuration means that you're free to use solar energy and electricity from the commercial grid at the same time. You can sell solar energy to your utility to make your electric meter go backwards. It's called net metering and it's the main way in which a 40 kilowatt solar system pays for itself.

When it comes to production of your system, several factors come into play, such as weather, positioning and tilt of your panels, number of sun hours in the area, shading and, of course, the properties of the panels themselves. In June panels produce around 50% more energy than in December. In California 180-220 kWh is how much does 40kw solar system produce per day. However, the production levels are going to be lower, for instance, in New York where there is less sunlight.

While grid-tie configuration is the most common choice, you can also go for hybrid or off-grid design. The problem with a 40kw solar system with batteries is getting storage of a capacity that is large enough. Battery storage provides backup during power outages in the grid. However, it's going to greatly increase your expenses.

Ground-based systems are cheaper to install than rooftop ones. However, they require a lot of free land that could be used for something else instead. The cost of 40kw solar system is going to depend on the configuration and the panels that you'll use.

Chinese solar panels are the most common choice for large systems because they are the cheapest and have high efficiency numbers. Look for brands like Jinko Solar, JA, Trina, Longi Solar to construct your 40 kwh solar system. American-made panels from brands like Mission Solar, Silfab, Aptos Solar are slightly more expensive, but the warranties for them are often better. Premium-class panels from LG, Panasonic, Sunpower are usually not an option for installations of such a scope -- they are simply too expensive.

The configuration is also going to impact your 40kw solar system price. Grid-tie design is the simplest and the cheapest and it guarantees steady income if net metering is available. Hybrid installations are a bit more costly since you'll have to add energy storage. The 40kw off grid solar system price is going to be the highest among these three, and you also don't have a net metering option.

These 40kW size grid-connect solar kits include solar panels, string inverter, and the racking system for a



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ground mount. These are complete PV power systems that can work for a home or business, with everything you need to get the system up and running. The kits include hardware components only; does NOT include labor.

The average American uses 920kWh per month. Based on that average this system could reduce your bill to ZERO. If you're an average consumer of electricity (920kWh/month), a 30kW system could probably give you the ticket to electric bill freedom.

A typical solar ground-mounted system for a home can be installed within one or two weekends once a permit is obtained from your city or county. After that, it's just 5 easy steps until you're producing power from the sun.

Our job is not over until your system is producing clean energy from the sun! We offer you support throughout the installation process with manuals, videos, and technical support.

Any licensed general, electrical or solar contractor can install our solar kits. If you select to hire a contractor to install your solar kit, you should expect to pay approximately \$1.00 per watt for labor, wire, conduit, fittings, breakers and other miscellaneous electrical components to complete the solar system installation. For this 40,180 watt system, you can expect to pay \$40,180 for installation. We can install for you in California.

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