



# Best solar panels for home

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Solar panels have been a renewable energy option for homeowners for decades. But technology advancements have made the best solar panels a reliable and cost-saving asset to many homeowners. When it comes to choosing the right solar panels for your lifestyle, there are a lot of factors to consider, but our top recommendation is the Renogy 400-Watt 12-Volt Off-Grid Solar Premium Kits-- a durable option with impressive energy output.

If you plan to install panels on your home, know that this isn't an overnight task. "A big part of your decision is who is doing the work," says Yuri Horwitz, J.D., founder and CEO of renewable energy company Sol Systems. If you're installing these panels yourself, you'll need to have at least some level of technical know-how. If you're relying on someone else, "you want to know who will be installing the project, how long they've been around for and are they reputable," Horwitz says. It's also important to make sure you have a roof warranty in place, given that the panels are often installed on top of your home and can be heavy, Horwitz says.

From there, you'll usually invest in the solar panels themselves, which you can either purchase from the company who will be installing your panels or on your own. "You should be thinking about the whole system, and that includes batteries [to store your excess solar power] and panels," says Muhammad Ashraful Alam, Ph.D., a professor of electrical and computer engineering at Purdue University. Not all panels are alike or even work for every home or climate, making it important to consider your personal needs when choosing panels, Alam says.

It sounds like a big effort--and it is. But while solar panels are a big financial investment for your home, federal and state tax credits can dramatically lower the cost of your project. Consider this expertly curated list of the best solar panels in your switch to solar energy.

I am a freelance writer specializing in general wellness, relationships, home, and lifestyle trends, with work appearing in Women's Health, Prevention, Health, Yahoo Life, and more. I have a master's degree from American University, live by the beach, and hope to own a teacup pig and taco truck one day.

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Max power output: 400 watts | Weight: 14.1 pounds | Warranty: 5 years | Type: Monocrystalline | Guaranteed capacity at 25 years: Yes

Renogy's 400-watt kit is a popular choice for homeowners who want to install solar panels on their own. The kit contains four 100-watt panels, charge controllers, electrical wiring, fuses and monitoring--everything you need to get up and running. The set will create up to 2,500kWh of electricity a day, which is enough to power



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lights, your TV and kitchen appliances. This isn't just for home use, though: You can use this set on an RV or boat, or use it to power outdoor appliances. An anti-corrosion frame and EVA film help protect your panels, regardless of where you put them.

Max power output: 200 watts | Weight: 26.5 pounds| Warranty: 5 years | Type: Monocrystalline | Guaranteed capacity at 25 years: Yes

Grape Solar's 200-Watt panels are made of monocrystalline (a single piece of silicon that makes it easier for electricity to flow through) and designed for residents with smaller roofs, like cabins. At 28 x 62 inches, the panels are on the more petite side, allowing you to fit a few on your roof. These panels have 0 to 3% positive output power tolerance, along with multilayer sheet lamination to enhance cell performance over time. It's also designed to work in weaker light conditions, as well as high temperatures. This panel can hold up to 50 pounds per square foot of wind and snow, making it a good choice for a range of climates, plus built-in mounting holes make it easy to install.

Max power output: 100 watts | Weight: 15.8 pounds| Warranty: Unspecified | Type: Monocrystalline | Guaranteed capacity at 25 years: No

With a 100-watt capacity, the Topsolar Solar Panel Kit isn't your best bet for serving the power needs of a large home. But it's a good choice for powering up RVs, boats, vans and smaller residences, or for experimenting with solar power to see what you do and don't like. The kit has all the elements to get you set up, including Z mounting brackets, cables and a controller. The panels have pre-drilled holes for easy installation and are designed to stand up to higher winds and moderate snow loads. Keep in mind that, while this particular kit is 100 watts, Topsolar also has panels that go up to 340 watts to give you options.

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