



# 15kw grid tie solar system

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Solar power can be a great asset for your business. It lowers or straight up nullifies your electric bills, brings you money through net metering and improves the public image of your business. A solar system is made out of several components and you have to size them together correctly so that they work well as one entity. At A1SolarStore we offer complete 15kw solar systems for sale where all the parts are already picked by our engineers.

The majority of commercial-scope systems are grid-tie which means that you retain the connection to the grid when you add solar. Your appliances use solar energy all the time so that your bills decrease significantly. You can even sell extra energy into the grid for credits from the utility if the net metering policy of the state allows you to do so.

So how much power does a 15kw solar system produce? A lot depends on the positioning of your panels, weather and most importantly, the number of sun hours in your area. You can expect anywhere from 50 to 85 kWh of power per day. That's enough for any large house or a small business, like a cafe, shop or a gas station.

Grid-tie systems require panels and an inverter. You can also go for hybrid variation or 15kw off grid solar system. In this case your system will also have batteries that will be your backup for a power outage. Hybrid systems allow you to retain the option of a net metering but with an interrupted power supply as well. Some ask, how many batteries for 15kw solar system do you need? That really depends on you and your needs. Generally, people get enough batteries to either survive a blackout or to have a steady power supply for at least one day without grid connection.

Panels are going to play a big role in your system's production and its cost. Generally, large systems, such as a 15 kW one, are installed on the ground and you use 72/144-cell panels or even bigger ones to build it. Chinese PV modules (Jinko, JA, Trina Solar) are the cheapest. North American panels (Silfab, Canadian Solar and Mission Solar) are a bit more expensive but the quality is higher overall. Panels from companies Panasonic, LG, REC show great production levels and come with great warranties but going for them will increase your final 15kw solar system price.

The configuration also has its impact on the cost. Grid-tie systems are the most simple ones: you only need panels and an inverter as essentials for it. Net metering, if available, provides a steady income and makes the system pay for itself in 6-8 years. A 15kw solar system with battery backup, off-grid or hybrid, is significantly more expensive, primarily because of the batteries. However, sometimes a hybrid system pays for itself quicker because energy storage helps to avoid peak energy rates from the utility.

The number of variables make it harder to answer how much does a 15kw solar system cost. A lot depends on



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solar incentives that you will or will not be able to get. The most important one of them is the Federal Solar Tax credit: you can deduct up to 26% of your installation costs from your taxes. The reduction includes things like shipping and labor expenses. Consult with your installer about possible solar incentive programs that you can apply for.

At A1SolarStore you can find yourself a 15 kilowatt solar system for all kinds of applications. Don't hesitate to contact us for more information about the components of our systems, warranties and delivery options.

System owners enjoy the benefits of SolarEdge technology, which allows maximum power production through module-level maximum power point tracking (MPPT), optimal roof utilization through constraint-free design, and enhanced maintenance and accurate troubleshooting through module-level monitoring. Another benefit is the DC shutdown for installer, homeowner, and firefighter safety through SolarEdge's SafeDC(TM) mechanism.

By adopting a holistic approach to innovation, SolarEdge designed the HD-Wave grid tied inverter to support enhanced product reliability by using film capacitors instead of electrolytic capacitors. To enable faster commissioning, the HD-Wave inverter has automatic power optimizer identification and string assignment detection. In addition to offering standard SolarEdge design flexibility, the HD-Wave inverter enables 155% DC/AC oversizing.

NOTE: For detail support after installation customer must be willing or have the ability to connect to the SolarEdge monitoring platform. The monitoring platform software is free but requires a WiFi connection to the inverter via RS485, Ethernet or ZigBee (optional) or cellular (optional) .

Blue Pacific Solar's SolarEdge Kit is featured with Mission panels. Mission is a Texas leading Tier 1 panel comprehensive solutions provider for solar energy. Mission Solar distributes its solar products all over the USA, UL Listed.

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