

## FAQs

### How much electricity will my PowerMax® system produce?

It depends upon your system size and local geographic and environmental conditions. CertainTeed offers a wide range of system sizes that can be customized to fit your needs. Your trained contractor can help design a system optimizing output.

### How much roof space is required for different system sizes?

PowerMax is available in a wide variety of system sizes in order to meet the needs of most homeowners. A good rule of thumb is approximately 10 watts per square foot or 1kW per 100 square feet. A 3kW household system would require 300 square feet.

### How much will I save on my monthly utility bill?

This will depend primarily on the size of your PowerMax system, your usage, and the cost of electricity per kWh. (For reference, 1kWh runs a 100 watt light bulb continuously for 10 hours.) As electricity rates increase, your savings should increase.

### Can I sell electricity generated, but not used, back to the utility company?

Yes, in most cases, however PowerMax is considered more of a supplement. A meter will measure the amount of electricity put back into the utility company's grid. In some cases, the utility company will pay a set rate payment to the homeowner (typically annually). Net metering laws vary from state to state, therefore consumers should verify their local utility's policies.

### What types of roofs can PowerMax be installed on?

The PowerMax system is designed to be incorporated into all asphalt-shingle roofing. A minimum slope of 4:12 is required.

### Do I need approval from my homeowners' association?

If you belong to a homeowners' association, consult your covenants for details. Many states prohibit homeowners' associations from restricting solar devices, however you will want to verify your association's specific policies.

## Everyday, CertainTeed makes a commitment to sustainability.

CertainTeed Roofing recycles, reuses and re-envision our environment. Here are ways we put ideas into action with green as our goal.



### We believe in leading by example.

We belong to the U.S. Green Building Council and champion their Leadership in Energy and Environmental Design (LEED) Green Building Rating System™. And we also strongly support the National Green Building Standards™ of the National Association of Home Builders.



### Roofing in harmony with nature.

It's more than a good idea at CertainTeed. It's a constant call to innovation.

We believe nature had a good idea. We're committed to making it better.



### Reaching for the ENERGY STARS.

As a 2011 ENERGY STAR Sustained Excellence recipient for Energy Management, we are proud of our commitment to designing high quality, sustainable roofing products.



### ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE • FOUNDATIONS  
GYPSUM • CEILINGS • INSULATION • PIPE

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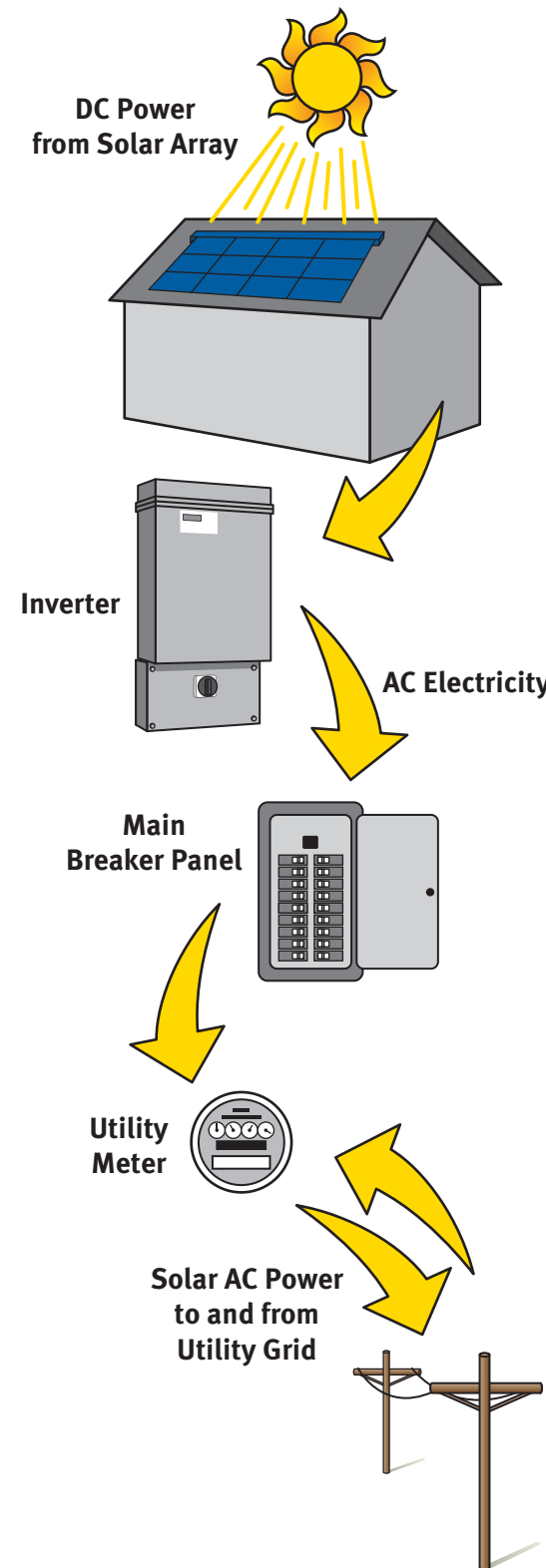
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CertainTeed  
**PowerMax**®  
Solar Roofing



**CertainTeed**  
SAINT-GOBAIN



## From Sun to Savings in Four Easy Steps

- 1. PowerMax Captures the Sun**

From dawn to dusk, PowerMax photovoltaic roofing absorbs sunlight and converts it into direct current (DC) electricity.
- 2. The Inverter Makes the Electricity Usable**

Your home uses alternating current (AC), and our system inverter converts the DC collected on your roof into AC you can use.
- 3. You Use Only the Electricity You Need**

The PowerMax system will generate a portion or, in some cases, all or more electricity than your home uses during the day. Your home will only pull electricity through your electric meter when you need more than your roof collects.
- 4. Get Paid for the Extra\***

If you don't use all the electricity your roof makes, the excess power flows back through your meter into the power grid. And your electric bill goes down even further as a result.

*\*Programs vary by state*

## For Optimum Performance... Find Your Place in the Sun

Solar panels perform at peak efficiency when certain factors work in your favor. While all solar collectors perform at their best on clear, sunny days when sun exposure is at its peak, PowerMax is designed to work longer and harder, making the most out of any sunlight conditions, from dawn to dusk. For best results...

- 1. Face South**

This is the optimum position for solar panels, but southeast and southwest facing arrays can produce decent results.
- 2. Catch the Latitude Attitude**

Homes in lower latitudes get better sun saturation. PowerMax technology broadens the range.
- 3. Get Out of the Shade**

Position solar panels where no shade will fall on them (from trees, buildings, chimneys, etc).

- 4. The Best Rays are Middays**

When the sun is at its highest, solar panels run at optimum levels.

- 5. Be Weather Aware**

The more sun, the better.

- 6. Get Seasoned Advice**

The sun is higher in the sky in summer compared to winter and a steeper roof is better in winter than in summer. Find a balance for your change in seasons.

## Go Solar Now & Save! Rebates & Incentives

**30% Federal Tax Credit**  
One-time credit available now through 2016 on any residential PowerMax solar roofing system.

**State Rebates & Incentives**  
Solar is hot, and many states, counties and even local governments have programs to support it. Let us help you find and handle your local rebates or visit [www.dsireusa.org](http://www.dsireusa.org) for more information.

**Utility Company Rebates & Incentives**  
Check with your local utility to see if they're one of the growing number of organizations that are supporting the expansion of solar to homes.



## PowerMax<sup>®</sup> Industry Leading Reliability

AVANCIS, another technologically-advanced Saint-Gobain company, manufactures the PowerMax modules. They are regarded as a pioneer in CIS and have been researching the field since 1981. In addition, AVANCIS has the longest CIS manufacturing experience (since 1998).

- Superior quality: manufacturing process certified to ISO 9001:2008
- First-class aesthetics: uniform black look
- Excellent energy yield (kWh/kW)
- Outstanding partial shading performance in comparison to crystalline PV technologies
- Robust construction: high snow load capacity (113 lbs per sq.ft.)
- UL 1703 approved
- Class C fire rating
- Ease of installation provided by built-in mounting lip

