Residential solar panel mounts

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As the industry has expanded rapidly in recent years, the technology used to mount solar panels to residential rooftops has experienced incredible innovation and rapid growth. Solar panel mounting systems are now available for all kinds of roofs, from asphalt shingles to clay tiles, to standing seam metal, and everything in between.

Solar panel mounts are a common component of almost every solar panel array. Although there are newer solar panel technologies coming out that do not require mounts, such as the Lumeta solar modulethat are being developed, the majority of solar panel arrays on the market and the ones already installed will require this feature.

Solar panel mounts are used to secure your solar panel array to a surface and can also be used to optimize your panel’s energy production through its angle and direction. The type of solar panel mounts that would be required for an array is completely dependent on the specific surface of which the array is being attached.

Overall, the purpose of a mounting system is to position a solar panel in the right location so that it can be exposed to the maximum amount of sunlight. This is usually at a 30-degree angle and should face south or southwest. Solar panel mounts can be completely customized to facilitate the effective positioning of the attached solar panel array to meet these parameters.

When looking at residential solar panel systems, the roof layoutand roof material type of the homewill have a big influence on the mounting system and solar array in general. The more you customize the system, the more expensive it will be, however, so let’s take a look at some of the more common solar panel mounts.

There are several types of solar panel mounts that can be installed on a property owner’s land or home. The most commonly used mounting system is a classic roof-penetrating rack. This is simply a rack that is drilled into a roof with additional screw holes or other attachment mechanisms on top of its surface so that the solar panels can be easily attached to them.

Roof-penetrating racks come in many forms. Some try to minimize the amount of drilling made into the roof, and some focus more on aesthetics. The two most popular companies for racking systems are Unirac and Ironridge, but you can also do some more research to find better options if these are not for you. Most companies like these use specialized clamping or screwing components that connect the solar panels to the racking system.

The type of mounts used for rooftop solar panels can be much different than the ones used on a ground-level system. In both cases, however, you should always ensure that the panels are exposed to as much sunlight as

possible. For those with unsuitable rooftops, having a ground-level system could be a cheaper and more efficient solution.

Solar panel arrays that are installed at the surface level will have much more flexibility in how they can be positioned and integrated. A notable benefit of having a ground-level solar panel array is that you can install a dynamic mounting system that will adjust its angle to maximize its exposure to the sun. You can also use racks and other components to create a fully customized array with any production capacity that you can support.

The purpose of a solar panel mount is to serve as a foundation for a solar panel. Mounting systems allow for solar panel arrays to be positioned in the most effective location to maximize the panel’s exposure to sunlight. The type of solar panel mounts will vary widely depending on the rooftop or surface type where it is being installed on. Overall, solar mounts are pretty standard, but they are almost always a necessary component of your solar panel array.

Whatever your roof type, our experts and Solar can help you find the mounting solution that’s best for your project, and an expert installer to perform the work. Get started free here.

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