Domestic ground mounted solar panels

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Ground-mounted solar panels are more efficient than roof-mounted solar panels, as achieving the best angle and direction is easier when no roof is in the way. This setup also enables the installation of bifacial solar panels, which can turn more sunlight into power.

They are also cooler than those installed on roofs, meaning they are more efficient for longer.But, they are also more prone to obstacles, like buildings or trees, blocking their sun exposure.

If a home has a lot of land attached to it, then ground-mounted solar panels could be a good option – and if they’re exposed to more sunlight, then you’ll be able to break even on the cost of solar panels sooner.

To give you a better idea of whether ground-mounted panels are right for you, this article will go over how much ground-mounted solar panels cost, how much space they take up, and compare them to roof-mounted solar panels.

Unlike typical solar panel systems, ground-mounted panels are fixed into the floor, instead of on the roof. Although they’re commonly used for solar farms, they can also be used in domestic solar panel setups.

Solar panels can either be mounted on a metal frame or fixed on a single pole – both of which are driven into the ground, or anchored with concrete for stability.

Pole-mounted panels can also be fitted with a solar tracking system, which adjusts the angle of the panel, based on the sun’s position in the sky.

Tracking systems allow solar panels to receive optimal sun exposure and can increase efficiency by 20% to 35%. But they are also expensive – they cost around £2,500 – and some electricity will be sacrificed to operate the tracking system.

As previously mentioned, they are also one of the best ways to install bifacial solar panel systems. These panels generate solar energy from both sides and are typically able to produce 10-30% more electricity than conventional panels. They are more expensive initially, but there superior PV generation speeds up the payback you get.

The average cost of a solar panel system in the UK is £7,026 for a three-bedroom house, but ground-mounted solar panels should cost a little more than this. To give you an idea, an average system would set you back between £8,000 and £15,000.

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According to Solartherm UK, ground-mounted solar panels can be 25% to 35% more expensive than roof-mounted ones. The reason behind the added cost is that ground-mounted systems require more materials and take more time to install.

In a roof-mounted solar panel system, the roof is a pre-existing supporting structure. But, in a ground-mounted system, that structure needs to be built from scratch and anchored into the ground so that the panels remain stable.

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