



Ground mounted solar panels uk

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You must have heard about rooftop solar panels, but did you know that you can also install solar panels on the ground? Ground mounted solar panels are installed on the ground instead of the roof. For example, you could have ground mounted solar panels installed in the garden of your house, these are called garden solar panels.

Solar panels are an increasingly popular choice for clean energy production in the UK. More households and businesses investing in them and more solar farms being built across the country. If you want to go the solar way and invest in this lucrative and sustainable source of energy for your house, read on to find out all about ground mounted solar panels, their costs, and their pros and cons in our guide.

To learn more about the types of solar panels suitable for your house, you will need to consult with an industry expert. However, finding a reliable local solar installer can be a tedious and time-consuming task, that can drag on for days. Fortunately, at GreenMatch, we can help you with this!

Just fill out our 30-second form and get in touch with our network of vetted solar experts who will provide you with the best prices. Click the button below and get up to 4 free and non-binding quotes!

Ground-mounted solar panels and on-roof solar panels differ primarily in their installation locations and associated benefits and challenges. Ground-mounted solar panels are installed on the ground, typically in open spaces, and offer greater flexibility in orientation and tilt, which can maximise energy production. An average 3-bedroom house requires about 20-35 sq metres of space for ground mounted solar panels.

Ground mounted solar panels are also easier to access for maintenance and can be installed without concern for roof condition or orientation. However, they require more land area and can be more expensive to install due to additional mounting structures and potential site preparation.

On the other hand, on-roof solar panels utilise existing roof space, making them ideal for urban areas with limited land. You can always store the energy produced in solar batteries for both ground mounted and on-roof solar panels.

Due to lower structural requirements, on-roof solar panels are generally less expensive to install and can integrate seamlessly with existing building designs. However, their performance can be limited by the roof's angle, orientation, and potential shading. Also, accessing them for maintenance can be more challenging.

An average 2-3 bedroom house in the UK requires a 4kW-5kW ground-mounted solar system, which costs around £8,500 - £10,200. The costs of installation for solar panels differ for ground mounted and on-roof solar panels.

The costs of ground-mounted solar panels vary based on several factors, including the size of the solar panel installation, how many solar panels you need, the type of mounting system used, site preparation requirements, and specific installation conditions.

These costs are generally higher than roof-mounted systems due to additional expenses such as the construction of mounting structures and potential land preparation, which can include levelling the ground or addressing soil issues, which can chalk up to ?5,000. If you invest in solar batteries, the solar battery storage price can set you back by an additional ?5,000 depending on the size.

However, larger installations may benefit from economies of scale, reducing the cost per kW for systems above 20kW. Despite the higher initial investment, ground-mounted systems can offer greater efficiency and ease of maintenance, potentially leading to long-term savings and higher energy yields.

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