



**DIAMOND
LIMITED**

SOLAR

ENGINEERING

DIAMOND SOLAR ENGINEERING LIMITED

Welcome to UPS Solar! We install solar panels and battery storage solutions nationwide. With teams located across the country, we bring a local touch to every project, ensuring you receive personalised service no matter where you're located.

We install solar panels and battery storage solutions nationwide to help you safeguard against rising energy prices. Our range of solar storage solutions ensure you have the power you need, when you need it.

The new modules are built with M10 wafer (182 mm) half-cells. 10 busbar technology using round ribbons increases the power gain from each cell and makes them less sensitive to microcracks, offering higher module reliability.

The ECS is a high-performance, scalable battery storage system. The modular design allows for maximum flexibility, making it suitable for a broad range of storage applications. Additional batteries can be installed in series. Installation is easy, with a plug and play solution that can save valuable time for installers.

Whatever business or organisation you're running, finding the right balance between spending and profits is rarely straightforward. It becomes even harder when energy bills continue to skyrocket year after year.

The photovoltaic effect is what's known as a thermodynamic process. Solar panels directly convert sunlight into electricity and are formed of photovoltaic cells, which are usually made of silicon. When sunlight strikes the cells, the photons from the sunlight are absorbed by the atoms in the silicon material. This absorption excites electrons in the silicon, causing them to move and create an electric current. The electric current is then captured and can be used to power electrical devices or sent to the grid for distribution.

The cost of solar panels can vary significantly depending on factors such as the size of the system and your specific energy requirements. For a more accurate estimate tailored to your needs, we recommend completing our quick remote survey to receive detailed pricing information.

The cost of solar panels depends on your energy usage and roof space. A typical 4kW system, consisting of 10-16 panels, is usually the most cost-effective option for homes. Commercial properties, with higher energy needs and more roof space, generally require more panels. Smaller businesses might need a few dozen panels, while larger operations could need significantly more. To get an accurate, no-obligation quote tailored to your needs, complete our free survey.

UPS Solar panels typically last 25-30 years, retaining at least 80% of their power output. With good quality, favorable conditions, and proper maintenance, their lifespan can be even longer. UPS Solar offers a 25-year

manufacturer warranty and a 25-year performance guarantee to protect your investment.

The energy a solar panel system produces depends on its size, panel efficiency, and sunlight exposure. In the UK, a 4kW system typically generates 3,400 to 4,200 kWh annually, enough to cover an average household's electricity needs. Actual output can vary based on installation conditions and weather. For a precise estimate, request a free quote survey.

South-facing roofs (south-east, south, south-west) are the most efficient for solar panels, but flat roofs and ground-mounted systems are also viable. It's crucial that the installation area has minimal shading and gets sunlight most of the day. For a detailed assessment of your home's solar suitability and options, request a free quote survey.

Solar panel batteries are used for storing the electricity from solar panels, which get the energy from the sun directly. Solar panel batteries can be used to give power to your house or your workplace in the form of electricity, when the weather is cloudier, or at night. Some of them can be used as well to charge by charging electric cars, which increases their usefulness and is practical.

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