



Solar grid vs inverter

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The inverter in a solar power system is designed to transform DC power generated by solar panels into AC current usable by your property or vehicle. As all appliances run AC, it's up to the inverter to turn all that potential energy from the sun into usable energy.

Off grid inverters must supply power from DC to AC instantly to power the appliances. It must react quickly and up to and over the capacity rating of the inverter. It draws power from the battery, converts it from DC and outputs AC.

Grid-tied inverters are designed to connect to your home to supplement mains power. When there is solar energy to use, the system will deliver it to your property. When there is insufficient energy to deliver, the system will switch back to grid power.

Grid-tied inverters work with mains to provide energy wherever possible. They have the processing intelligence to know when to deliver power and when to not deliver it and will synchronise power delivery with grid power.

An on-grid inverter converts solar power DC which is constantly varying and feed it into the mains power supply. It synchronises its output voltage and frequency to the mains power supply it is connected to. As the power of the solar increases, so does the output but it can do this at leisure. There is no forced power demand or instant requirement, it simply puts power through as and when it can.

Please note, this is for OFF-GRID enquiries only. Off-grid systems differ to grid connected systems in cost and design. If you have a grid connection please [click here](#) for our On-grid installation service.

Your Name (required):

Your Email (required):

Your Address (required):

Describe Your System (required):

Contact us for free full report



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