



# Inverter power requirements

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We've put together a guide detailing everything you need to know about solar inverters; from their role in your solar energy design to picking the best one for your current system and needs.

There is no such thing as a one size fits all battery storage system, here at Sunergy Renewables our team will work with you to ensure we are quoting the correct battery size for your requirements, these are just some of the most frequently installed system sizes.

Trying to find a smart tariff for your new battery storage system can be difficult, here at Sunergy Renewables we like to include this as part of our service. A great tariff for battery storage owners is Tomato Energy's Tomato Intensity tariff, Tomato Intensity rewards customers with a 15% discount for using energy during green grid periods. With renewables contributing to 39.5% of the UK's energy in 2023, there's ample opportunity to benefit.

Probably the most important question if you have solar, the answer is absolutely not! As our systems fit after the generation meter and are standalone to your existing system, your FIT is not effected.

Battery storage systems work by receiving electricity from the power grid or from solar panels during daylight and store it to release it when needed. The battery converts this stored energy from DC into AC power to store and keep it ready to use for later. By storing energy during the daylight, battery storage systems can keep homes running at peak times.

You can install your battery storage system almost anywhere! Our systems are IP65 rated and are not adversely effected by cold temperatures like most on the market, meaning they can go outside. AC storage is flexible, we don't need to install it where your current inverter is, our team will talk you through all installation options.

Yes, there are a few options for this. Automatic whole house changeover, powering critical circuits or a simple double socket connection, meaning your house is always switched on with your battery storage system.

Yes, our battery systems are future proof and can be set to be able to charge the battery's with energy delivered from the grid at off peak times, and automatically transfer to battery power at peak times, in the event that TOU's (time of use tariffs) become popular.

We can accommodate any level of battery storage, all of our battery solutions are expandable. We normally work out an ideal capacity for you based on information provided to us such as your energy consumption.

Our solar team have absolutely zero financial motivation to push particular products because their salaries are



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not commission based. We formed Sunergy to offer customers a genuinely informed choice. We're committed to remaining 100% impartial and can install any Solar PV products on the market. And frequently do - because every home and every business is different.

Sunergy Renewables use Easy PV software to accurately calculate your expected output. Easy PV accurately takes in to account panel performance, inverter performance, shading, roof pitch, roof orientation and your local weather data to calculate how much electric you will generate. We then include these figures and how much money you are likely to earn, based on your usual usage and the amount that will be returned to the grid.

You will simply draw from the grid in the normal way. But remember, it doesn't have to be sunny to generate electricity. If you have incorporated battery storage, you will then use your stored battery power.

Contact us for free full report

Web: <https://sumthingtasty.co.za/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

