



Off grid solar inverters australia

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Looking for off-grid power but unsure which solar inverter/charger/controller is best for you? Below you'll find lots of information on different inverter, charger and controller types, brands and models to help you understand the pro's and con's of different solar inverter devices. We can design your off-grid system with the inverters and controllers that are perfect for your needs and help you gain independence from the grid.

Off-Grid Energy Australia utilise a variety of inverter technologies from leading Australian and International suppliers to accommodate for a range of controller applications.

The inverter/charger performs multiple important functions in a battery system. Essentially the traffic conductor for electricity throughout your system. It diverts solar power from your solar inverter directly to your house loads or batteries as required, and converts stored dc energy in your batteries to ac electricity for use at night times.

The solar MPPT inverter (Maximum Power Point Tracking) converts DC electricity from solar panels into appliance friendly 240V AC electricity to either directly power loads, or to charge batteries via the separate battery inverter/charger.

MPPT (Maximum Power Point Tracking) Solar Charge Controllers maximise the production of solar power from the solar array to charge the battery bank. These solar battery regulators dc-couple the solar panels directly to the batteries for efficient and carefully managed charging and battery care.

The size and number of inverters needs to be matched to your "load profile" (a detailed plan of your power usage) to ensure you have enough capacity to meet your instantaneous power requirements.

Different inverters will have individual design requirements depending on whether you have single or three phase power. And some may only be compatible with one particular phase type. Inverters also need to be sized to appropriate capacity ratios with your solar and batteries.

Off-grid system designs may include AC coupled solar, DC coupled solar, or a bit of both. This will inform the inverter type/s that are best suited to your unique system design. We always gain a full understanding of your power needs, both current and in the future, before recommending which inverters are suitable for your off-grid system design.

Your preferences in relation to the country of manufacture and technology type are always taken into account. The inverters below are listed to educate you on the main points for each one, so that you have a better understanding of their benefits when we quote on your off-grid system.



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A reliable power supply, even without a utility grid: With stand-alone solar solutions from SMA, you can always cover your entire electricity demand and become independent from electric utility companies.

Whether the single-phase Sunny Boy or the three-phase Sunny Tripower, the SMA inverter always ensures maximum energy yields right from your roof. For the ultimate in convenience, the integrated SMA Smart Connected service automatically informs the installer in the event of a malfunction. Intelligent and cost-effective module technology optimizes yields in the case of shadowing or unfavorable roof orientations.

Learn more about the Sunny Tripower 3.0-6.0
Learn more about Sunny Boy 3.0-6.0 with integrated SMA Smart Connected service
Learn more about intelligent module optimization with smart module technology from SMA

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