

## SolarTech Power Solutions

# String inverter and grid-connected inverter



## Overview

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What is a string inverter?

A string inverter is the most commonly used type of solar inverter, especially in residential and small commercial systems. It connects multiple solar panels (called a "string") to a single central inverter, which converts the collective DC electricity from the array into usable AC power.

What are 'string' solar inverters?

This review focuses on common 'string' solar inverters, the most popular type. These inverters use one or more strings (groups) of solar panels connected in series. String solar inverters are the most common type used in the UK, Europe, Australia, and Asia. They are also growing in popularity in the US, where microinverters are extremely popular.

Who makes the best solar string inverter?

We review the best grid-connect solar inverters from the world's leading manufacturers Fronius, SMA, SolarEdge, Fimer, Sungrow, Huawei, Goodwe, Solis and many more to decide who offers the highest quality and most reliable solar string inverters for residential and commercial solar.

What is a grid tied inverter?

Grid Tied inverters are fairly self explanatory in that they tie directly into the grid. So, you're feeding back voltage into the grid, rather than using it. The grid is essentially 'the power company we all love and support', and what feeds into our houses or industrial facility that we conveniently plug our devices into.

How does a grid forming inverter work?

Grid-forming inverters can start up a grid if it goes down—a process known as black start. Traditional "grid-following" inverters require an outside signal from the electrical grid to determine when the switching will occur in order to

produce a sine wave that can be injected into the power grid.

Are string solar inverters a good choice for utility-scale solar farms?

String solar inverters up to and above 100kW are also increasingly popular for utility-scale solar farms due to the advantages of string-level monitoring and ease of servicing compared to central inverters. Below is our list of the most popular 3-phase inverters on the Australian market in the 8kW to 30kW and 30kW to 100kW categories.

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