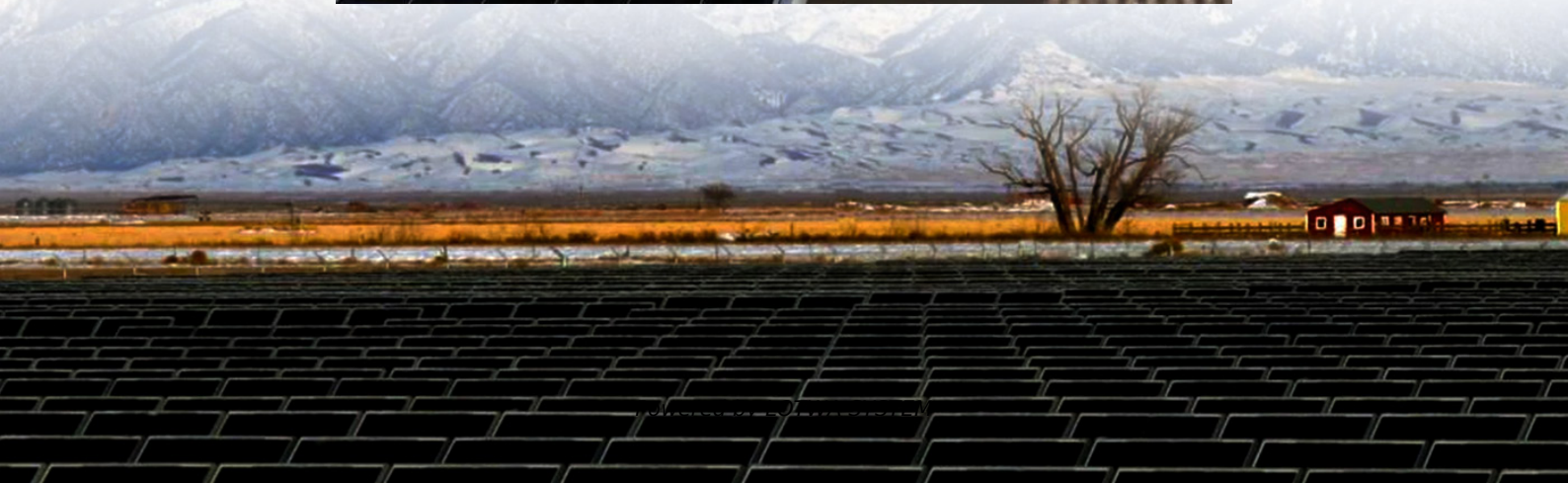


# **Can professional solar grid-connected inverters be used at home**





## Overview

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Do I need a solar inverter?

That's why a solar inverter is necessary: it acts as the bridge between the solar system and your home's power needs. In small, portable setups like EcoFlow power stations, the inverter is built inside the unit. In larger home systems, the inverter is often a separate device.

How do inverters provide grid services?

In order to provide grid services, inverters need to have sources of power that they can control. This could be either generation, such as a solar panel that is currently producing electricity, or storage, like a battery system that can be used to provide power that was previously stored.

What does a solar inverter do?

A solar inverter is a key part of any solar power system. Its main job is to convert the direct current (DC) electricity generated by solar panels into alternating current (AC) electricity, which is what most household appliances and the power grid use. Solar panels only produce DC power.

Can multiple solar inverters work together?

Some advanced systems, such as the EcoFlow DELTA Pro Ultra, allow multiple inverters to work together. For example, up to three solar inverters can deliver 21.6kW of AC output and support 16.8kW solar charging when connected to 42 rigid solar panels. In hybrid or off-grid systems, another component called a solar charge controller is also used.



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