



# Hybrid solar inverter for usa

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A hybrid inverter is a 2-in-1 solution combining both solar and battery in one single device. This means that it not only converts direct current (DC) to alternating current (AC) but also expedites the charging process of solar power to be stored in a connected battery. Find out more about the functions and benefits of hybrid inverters from SMA.

Hybrid inverters combine the functionalities of both solar and battery inverters in one device. Like solar inverters, they convert direct current (DC) to alternating current (AC), enabling solar energy to be used in the home and fed into the utility grid. But that's not all:

Yes! When a battery storage system is connected to the hybrid inverter, the battery can sustain power supply during an outage. This is because the hybrid inverter can convert direct current from the battery into alternating current for household appliances and needs. As a result, essential devices can remain operational even when there's a power outage.

Hybrid inverters enable efficient utilization of the solar power generated. They allow electricity to be fed into the utility grid, consumed or stored temporarily for later use. At the same time, hybrid inverters ensure a reliable supply of electricity by controlling and monitoring the flow of electricity.

SMA Smart Connected is a free service offering around-the-clock monitoring. This service automatically monitors the hybrid inverter and proactively notifies both the system owner and installer about any issues that may arise.

SMA ShadeFix optimization is a proprietary, integrated inverter capability that optimizes PV system energy production in every situation - even when shading occurs.

A battery storage system ensures you have power even if the grid goes down. The battery supplies direct current to the hybrid inverter, which is then converted into alternating current that provides a reliable source of emergency power supply.

A solar inverter, also known as a PV inverter, converts direct current to alternating current. It's the link between your PV system and the utility grid. A hybrid inverter does much more than that. It allows you to store excess solar power into a connected battery solution. Instead of needing two separate inverters (one for solar, one for a battery), a hybrid inverter does both jobs in one.

Hybrid inverters from SMA can operate both with and without a battery. This means you can start without a battery storage system and then add a battery at any time, without requiring an additional battery inverter. Hybrid inverters are beneficial for those who may not be ready for a battery but wants the flexibility to



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integrate one in the future.

Hybrid inverters enable the efficient use of solar energy because they can be easily connected to a battery storage system. This means that solar energy can be used even when the sun is not shining or if there is a power outage. Storing your own solar power and using it yourself increases your self-consumption, cuts your electricity costs and provides emergency backup power.

Hybrid inverters merge the functionalities of solar inverters and battery inverters into a single device, streamlining installation and saving both time and money. Compared to separate solar and battery inverters, hybrid inverters require less overall space. SMA hybrid inverters are specifically engineered to be highly compact, minimizing wall installation space.

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