

## ContainerPower Energy Solutions

# Sophia high power inverter



## Overview

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What is the highest power solar inverter?

For high-power solar panels, opt for the Enphase IQ7A series or the SunPower SPWR-A4. These are the highest capacity microinverters made for high-wattage solar panels. Both the IQ7A and the SPWR-A4 have a continuous output power of 349 VA, and the maximum is 366 VA. [How Much Solar Power Does The Inverter Allow?](#)

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What is the best inverter for solar panels?

While SolarEdge inverters have more flexibility in sizing the output to match the solar panels, the central inverter unit is a single point of failure. This makes Enphase microinverters the best inverter overall for solar panels. [But what about solar panels with high power output like 400 watts?](#)

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Are SMA Solar inverters a good choice?

SMA's been perfecting inverters since the '80s, and the Sunny Boy Smart Energy is their 2025 hybrid gem. Available in 3.8 kW to 7.7 kW, it's a combo solar inverter and battery manager, with "Backup Secure" delivering 1,900W of emergency power without a battery. Add an SMA battery, and you've got full outage protection.

Are hybrid inverters better than off-grid solar?

Other Inverter & Battery Comparison Charts: Hybrid inverters are the most popular way to add battery storage, but they have some limitations compared to dedicated off-grid inverters. For a detailed guide to selecting and sizing a hybrid inverter or energy storage system, see our [Technical guide to designing hybrid and off-grid solar systems](#).

What Enphase micro inverter pairs best with high-powered solar panels?

There are two factors that determine what Enphase micro inverter pairs best with high-powered solar panels: Maximum Output Power and Module Compatibility. Solar modules are now available in the 400-watt range. Sunpower has a series of panels over 400 watts. LG, REC, and Solaria have panels that are 360 watts and above.

How do I choose a hybrid inverter or energy storage system?

For a detailed guide to selecting and sizing a hybrid inverter or energy storage system, see our Technical guide to designing hybrid and off-grid solar systems. \* Operating MPPT voltage range - Most manufacturers specify the full operating MPPT voltage range, while others provide the optimal MPPT voltage range for maximum power and efficiency.

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