



When choosing your inverter, look for the SPI seal

Efficiency pays off

Anyone investing in a photovoltaic system with battery storage today wants to use as much of the self-generated electricity as possible in their own household.

Therefore: Look for the SPI seal – the independent efficiency seal for PV storage systems – for more self-consumption and lower electricity costs.

What are the key features of a system with a high SPI?

A high SPI value is achieved through:

- Low conversion losses between
- PV system and battery
- Excellent part-load efficiency
- Low standby consumption
- Intelligent system control
- Efficient interaction of all components

The decisive factor is not the best individual efficiency, but the overall performance in real-world operation.



**Fact Sheet:
SPI 2026**

Example calculation:

When efficiency pays off

Assumption:

- Low conversion losses between
- PV system and battery
- Excellent part-load efficiency
- Low standby consumption

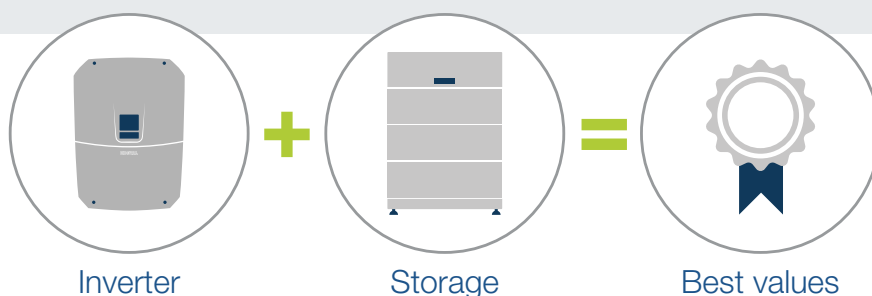
System with SPI of 95%:

> 4,750 kWh usable energy

System with SPI of 89%:

> 4,450 kWh usable energy

Difference: 300 kWh per year. This corresponds to €111 per year – or around €1,665 over 15 years. Calculated without electricity price increases. **A more efficient system therefore pays off noticeably in the long term.**



"Only the perfectly coordinated interaction of inverter and storage ensures maximum efficiency and higher usable solar yields."

Efficiency determines your return

What is the SPI seal?

The SPI seal (System Performance Index) from HTW Berlin evaluates the actual efficiency of photovoltaic storage systems in realistic annual operation.

In contrast to individual efficiency specifications of individual components, the SPI considers the overall system performance – i.e. the interaction of:

- PV generation
- Inverter
- Battery
- Energy flow in the household

The result shows in an understandable way how efficiently a system works in everyday use.



KOSTAL advantage. Customer advantage.



- BYD DYNES PYLONTECH VARTA ZYC KOSTAL

Which system is right for you?

The PLENTICORE inverter offers broad compatibility with leading battery systems. This enables application- and performance-optimized design – individually tailored to your requirements, consumption and your growing future plans.



Why is the SPI seal important for you as a system operator?

- ⊕ More usable solar energy in your own household
- ⊕ Less electricity from the public grid
- ⊕ Lower electricity costs
- ⊕ Higher profitability of your investment
- ⊕ More future security with heat pump or e-mobility

Even a few percentage points difference in SPI can make a difference of several thousand euros over the lifetime of your PV system.



We only recommend systems whose efficiency has been verified by independent testing. Because a photovoltaic system is an investment for 20 years and more – and efficiency determines your long-term return.

Let us advise you – we transparently show you how efficiently your system can really work.