



SMA HOME ENERGY SOLUTION

I LOVE THE SUN

It doesn't send
energy bills.





Your SMA Home Energy Solution.

The sun delivers valuable energy to your home every single day – completely free of charge. A PV rooftop system combined with our energy solution allows you to generate and use electricity for your home, save up to 80% on your energy costs, and actively help shape the energy transition.

**One solution.
Everything from a single source.**

The SMA Home Energy Solution is the perfect combination of high-quality equipment, smart software and exceptional service. Its modular design means that getting started is easy and your system can be upgraded to suit your budget and individual needs anytime, with no hassle.



Generate solar power
for optimal consumption

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Generate and store
solar power

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Manage and distribute
solar power

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Generate solar power for optimal consumption.

The SMA Home Energy Solution helps you cut your energy costs permanently, starting now. Harness the unlimited power of the sun to generate cost-effective and sustainable solar power. Less dependence on energy providers and no more worries about rising electricity prices.

How to produce your own electricity.

The SMA Home Energy Solution allows you to generate your own green electricity with your very own rooftop PV system. The electricity you do not use yourself is automatically fed into the utility grid. On the following pages you will learn how a storage system can make you even more independent of utility companies.

Benefits

- Quick and easy installation, can be flexibly expanded
- Compact design means minimum space requirements
- Maximum yields even with shading
- Free monitoring with the SMA Energy app
- 5+5-year warranty*

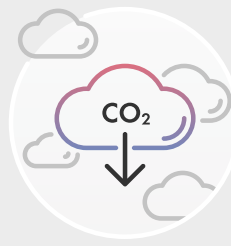
*Product registration in SMA Online Service Center is required



Up to 80% lower energy costs.*



Protection against rising energy prices.



Your contribution to climate protection.



Additional income from grid feed-in.

* If you implement all SMA Home Energy Solution applications.

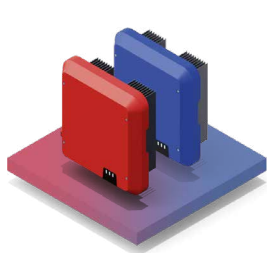
SMA PV and hybrid inverter

The heart of your personal PV power plant.

A SMA PV or hybrid inverter from the Sunny Boy or Sunny Tripower families is the core of your SMA Home Energy Solution. It converts the direct current generated by the PV modules on the roof into standard alternating current for domestic use. At the same time, you benefit from our tried-and-tested, integrated range of software functions and intelligent services like SMA Smart Connected and SMA ShadeFix.

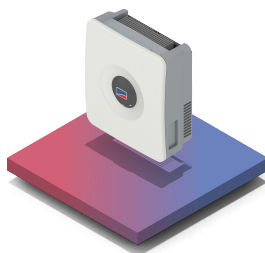


Solution components.



PV inverter

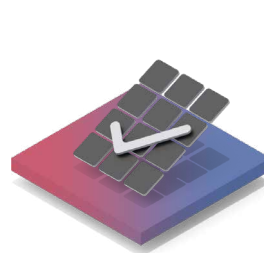
Sunny Boy or Sunny Tripower inverter converts solar power (direct current) into usable alternating current.



Hybrid inverter Sunny Boy Smart Energy offers a PV and battery inverter in one, with the ability to be expanded at any time to form a complete home storage system.



System visualisation With Sunny Portal powered by ennexOS and SMA Energy app, you can clearly visualize and monitor your energy system.



SMA ShadeFix

Maximize PV-system yields in any situation. Even in the shade. With SMA ShadeFix software integrated in the inverter.



SMA Smart Connected

Integrated automated failure detection. Proactive system maintenance for higher up-times and yields.



Generate and store solar power.

Do you want to consume your own solar power in an integrated way, around the clock? The SMA Home Storage Solution, including a hybrid inverter and the SMA Home Storage battery, is the ideal choice for your home. The intelligent, rapidly charging hybrid inverter, integrated with advanced features, transforms the flexible and modular Home Storage Solution into a crucial component of a harmonised appliance ecosystem. The ultimate all-in-one solution.

Solar power in any weather.

The Sunny Boy Smart Energy shines with its high-speed battery charging and discharging capability. Charging performance can be a particular problem in transition months, when there are few hours of sunshine and lots of cloud cover.

Whether during times of low solar irradiation or the highs of midday – the SMA Home Storage stores solar power and makes it available as needed. The battery offers flexible scalability to be adapted to individual needs and has an especially long lifetime.

Benefits

- Compact all-in-one solution for generating and storing solar power
- Fast charging and maximum battery use even when there is little sunshine
- Integrated battery-backup function
- 5+5-years warranty for hybrid inverter*
- 10 years warranty for battery**

* Product registration in SMA Online Service Center is required

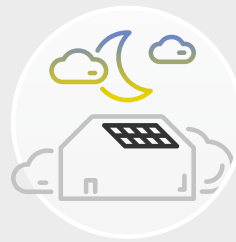
** Terms and conditions of SMA limited factory warranty apply.



Save up to 80% on energy costs.*



Use more solar power yourself by storing it.



Solar energy at your disposal 24/7.



Protect against rising energy prices.

* If you implement all SMA Home Energy Solution applications.

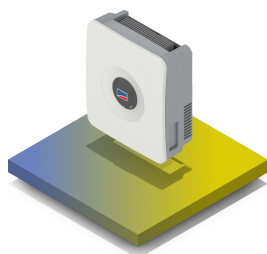
SMA hybrid inverter and battery

The strong heart for every home.

PV systems including the Sunny Boy Smart Energy can be expanded at any time. By adding a powerful battery, such as the SMA Home Storage, for example, you benefit from unparalleled flexibility and modular design. This means that the system is prepared to meet any upcoming needs or demands.*

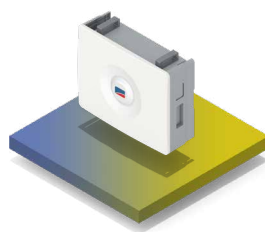


Solution components.



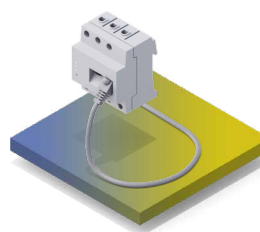
Hybrid inverter

Sunny Boy Smart Energy combines solar and battery inverter in one device. Compatible with SMA Home Storage and other HV battery brands.



Battery

Stores the energy and makes it available again as and when needed. The SMA Home Storage is developed for intensive use with 10 years of warranty*.



Energy manager

The Sunny Home Manager 2.0 monitors and manages all energy flows in the household and automatically adapts to individual habits, allowing it to leverage the full potential of any energy system.



System visualization and control

With Sunny Portal powered by enexOS and SMA Energy app, you can easily manage and clearly visualize your energy system.



Manage and distribute solar energy.

Supply your home appliances with solar power and manage your heating cost-efficiently. Your SMA Home Energy Solution fully automates all of these processes. Intelligent energy management allows you to use your valuable solar energy with maximum efficiency.

The smarter way to manage your household power supply.

Sunny Home Manager 2.0 combines all energy flows in your home to create an intelligent system. If needed, it can control them automatically to help you get the most out of your solar power. The energy manager produces daily yield forecasts using satellite weather forecasts and your own consumption analysis. Based on this information, the Sunny Home Manager 2.0 can predict when a lot of solar power will be available and when is the perfect time to start the washing machine.

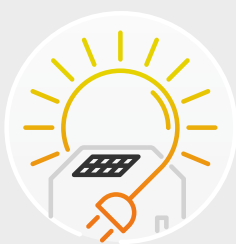
Home appliances communicate directly with the Sunny Home Manager 2.0 via compatible interfaces or can be integrated into the energy system with compatible radio-controlled sockets.

Benefits

- Optimum usage of self-generated solar power in the household
- Lower energy costs by avoiding derating losses
- Easy integration of home appliances into the energy system



Up to 80% lower
energy costs.*



Optimize self-consumption.



Energy management saves
money without sacrificing
comfort or convenience.



Power generators and
appliances can be
combined in an integrated
energy system.

* If you implement all SMA Home Energy Solution applications.

Energy manager

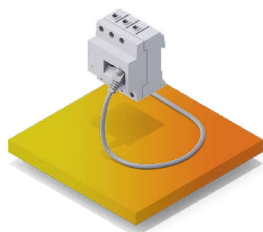
The SMA Home Energy Solution control center.

The Sunny Home Manager 2.0 measures and controls all energy flows in the home, identifies potential savings, and automatically facilitates efficient use of solar energy. Thanks to its intelligence, it ensures that no solar energy is lost and is instead used or buffered, even when feed-in power limitation is required.

Intelligent energy management is thus becoming even easier and more cost-effective.



Solution components.



Energy manager

The Sunny Home Manager 2.0 is the intelligent control center of your SMA Home Energy Solution. It automatically monitors and controls all energy flows in the household so that you can make the most of your solar power.



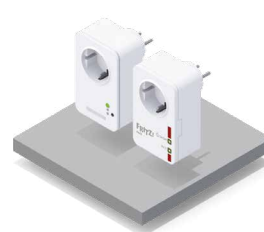
System visualization and control

With Sunny Portal powered by en-nexOS and SMA Energy app, you can easily manage and clearly visualize your energy system.



Directly controllable loads

Compatible home appliances can be directly integrated into the system and easily controlled.



Indirectly controllable loads

Compatible radio-controlled sockets additionally integrate appliances without a compatible interface into the system and switch them on and off intelligently as required.



Compatibility list
Sunny Home Manager 2.0

 SMA component

 Third-party component

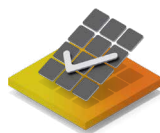


Why SMA

With the SMA Home Energy Solution, you benefit from an exceptionally lean system design. Our devices already contain everything you need for a secure and sustainable energy supply. Smart software features optimize the yield of your PV systems in every situation, at no extra cost.

SMA ShadeFix

It is not always possible to prevent dormer windows, chimneys, trees and other obstructions from casting shadows on PV modules. The proprietary integrated software feature optimizes your energy yield automatically and in every situation – even in shading.



SMA Smart Connected

In case of malfunction, our free inverter monitoring function automatically provides your installer with the right diagnosis so they can service the device with pinpoint accuracy, minimizing downtimes for your system.



SMA Energy app

The SMA Energy app allows you to keep track of your home's energy balance at a glance. You can see exactly whether the washing machine, dryer, dishwasher and heating system are currently using solar power or grid current.



SMA services and warranties

Our SMA warranty gives you peace of mind.

- Free replacement inverter with all necessary updates, provision of a replacement device or repair, according to service requirement
- Minimum downtime and safeguarding of your yields
- Optional extended warranty

From hotline support to reliable on-site service, your installer and SMA are always at your side – even easier and faster thanks to registration in the SMA Online Service Center.



SMA Online
Service Center

Tried and tested supreme quality for your home.

For more than 40 years, our products and solutions have been paving the way for a climate-friendly, decentralized energy supply of the future. In private homes, hotels, agricultural or commercial enterprises and in power plants. In cities, in the country, in deserts, on islands and on mountaintops, even in Antarctica. Our devices and solutions function reliably even in the toughest of conditions and comply with all international standards.

State-of-the-art test centers guarantee supreme quality.

Our inverters are designed in Germany. They undergo extensive tests and quality checks in our certified test centers and our own PV systems. We can simulate the entire service life of our equipment in an accelerated process. This is how we ensure the longevity of our inverters in extreme weather conditions, from intense heat or biting cold to high humidity, in sandstorms and where there are ground vibrations. To achieve the goal of security-optimized products, we not only comply with internationally recognized standards, but also shape them.

100 %

Our main site in Germany is supplied with 100 percent de-centrally generated renewable electricity from the immediate vicinity.

1,40 kg/kW

By reducing the material usage in our products, we're conserving resources and benefiting the environment. In 2022, we further lowered the average weight of our inverters to 1.40 kg per kW of produced inverter power.

118 GW

Around 118 GW of total installed SMA inverter power helps prevent over 63 million tons of CO₂ emissions each year.





sma-australia.com.au

