



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

— 04



Store solar power and use it flexibly

— 06



Manage and distribute solar power

— 08



Grid independence with solar power

— 10



* If you implement all SMA Home Energy Solution applications.



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

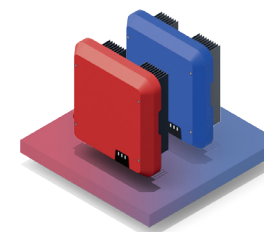
SMA PV inverter

The heart of your personal PV power plant.

An SMA inverter from the Sunny Boy or Sunny Tripower families are the core of your SMA Home Energy Solutions. 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.



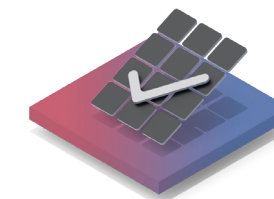
Solution components.



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



System visualization
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 notifications for higher uptimes and yields.

SMA component



Save up to 80% on energy costs.*

Use more solar power by storing it.

Use solar power even when your PV system is not producing any electricity.

Protect against rising energy prices.

* If you implement all SMA Energy System Home applications.



Store solar power.

Sometimes your PV system generates more power than you need. A battery-storage system allows you to store solar energy for later use.

Solar energy at your disposal 24/7.

Solar power is not always available when you consume a lot of electricity, such as in the evening. In these situations you normally have to rely on expensive grid power.

The smart alternative: when you produce more than you consume, store your valuable energy in a battery-storage system until you need it. This way, you will use even more of your own solar power with your SMA Energy System Home.

Benefits

- Modular system provides operation flexibility
- Easy commissioning via integrated web interface
- 5+5-year warranty*

SMA battery inverters

Delivers solar power even when the sun is not shining.

The SMA Sunny Island battery inverter allows you to store your solar power in one battery, there to use when the sun isn't shining. Your Sunny Island* will supply your connected home appliances with electricity from the battery, even when the utility grid fails*. It automatically controls the power in conjunction with the intelligent Sunny Home Manager 2.0, giving you maximum flexibility with your solar power storage usage.

* A customised automatic transfer switch is required with the backup functionality.



System components.



PV inverter

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

Battery inverter

The Sunny Island efficiently manages battery charge and discharge cycles, adjusting as needed in response to property energy consumption.

Battery

Stores the energy and makes it available again when needed (batteries from external partners).

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 the SMA Sunny Portal and SMA Energy app, you can easily manage and clearly visualize your energy system.

■ SMA component ■ Partner component



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.



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 home 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

Energy manager

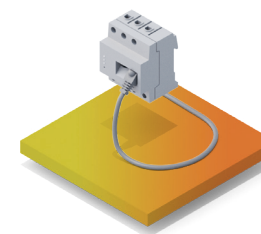
The SMA Home Energy Solution control center.

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.



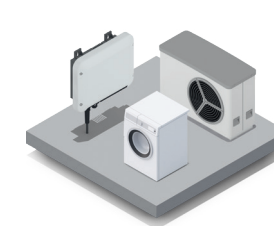
Home manager

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.



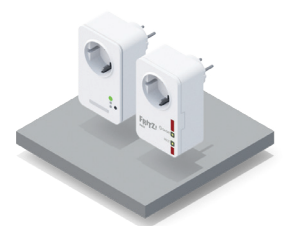
System visualization and control

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 are easily controlled.



Indirectly controllable loads

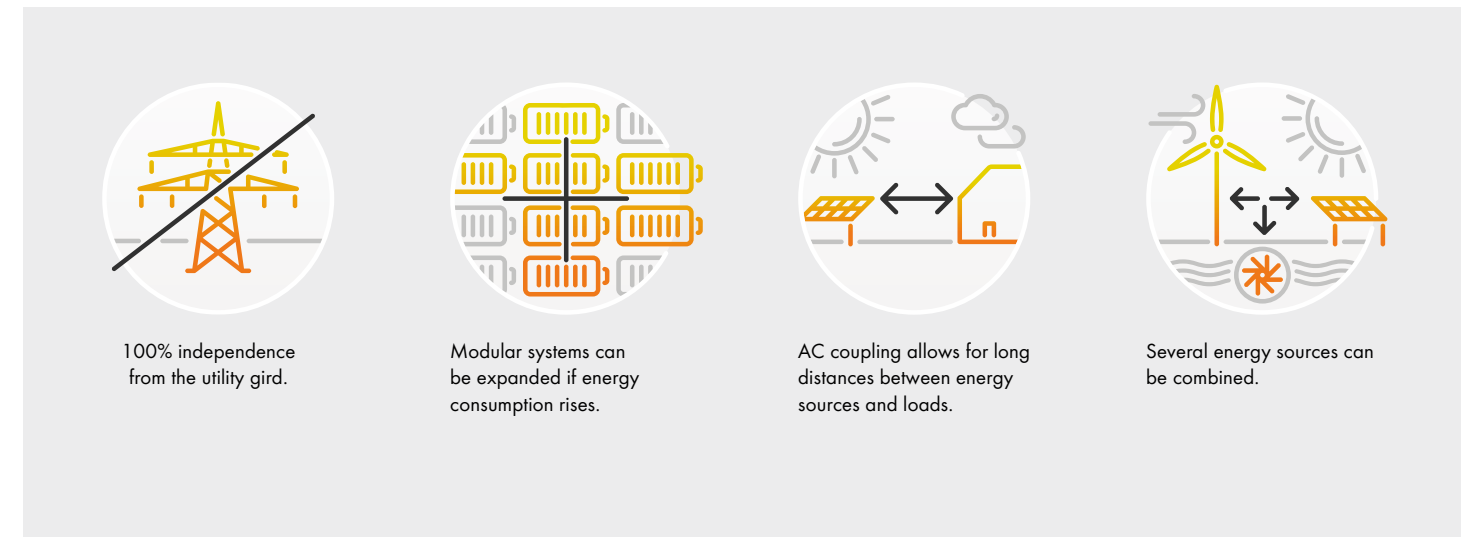
Compatible radio-controlled sockets additionally integrate appliances without a compatible interface into the system and switch them on and off intelligently as required.



Compatibility list
Sunny Home Manager
2.0

◆ SMA component

◆ Third-party component



Grid independence.

From an isolated off-grid station operation, or a holiday resort on an island – autonomous solar power supply systems work anywhere the sun shines.

Be self-sufficient with solar power.

The SMA Off-grid Energy System with battery-storage system provides reliable, grid-quality solar power for off-grid homes, commercial and industrial enterprises, and even remote islands. In regions with low electrification rates, it enables sustainable economic development without diesel fuel.

Benefits

- Grid-quality power supply
- No more diesel-based power supply and high transport costs
- Reduced CO₂ emissions
- Modular expansion at any time

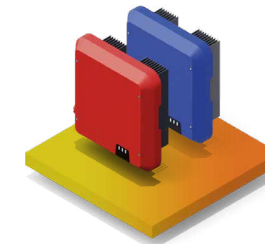
SMA battery inverters

Stand-alone grid without a diesel generator.

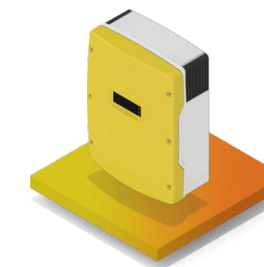
The SMA Sunny Island battery inverter is the heart and brain of any off-grid system. With its high overload capacity, the robust device reliably takes care of all load and generator management and can be expanded on a modular basis at any time within the same generation of product.



System components.



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



Battery inverter
SMA Sunny Island manages the off-grid system and ensures grid quality.



Battery
Stores the solar power and ensures a reliable energy supply (batteries supplied by external partners).



System visualization
With SMA Sunny Portal you can clearly visualize and monitor your energy system.

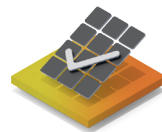
■ SMA component ■ Partner component



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 optimises 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 optimises your energy yield automatically and in every situation – even in shading.

SMA Smart Connected



In case of malfunction, our free inverter monitoring function automatically notifies you or your installer with the necessary information to service the inverter, minimising the 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. You can also charge your electric vehicle conveniently via your smartphone.

SMA services and warranties

Our SMA warranty gives you peace of mind.

- Replacement inverter with all necessary updates or inverter repair according to service requirements
- 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 quality for your home.

For more than 40 years, our products and solutions have been paving the way for a climate-friendly, decentralised 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 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-optimised products, we not only comply with internationally recognised 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

