



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 system allows you to generate and use electricity for your home. You can save up to 80% on your energy costs and 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. The modular design allows for the system to grow with your individual energy demand, and can be built to suit any budget.



Generate solar power
for optimal consumption

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Store solar power
and use it flexibly

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Generate solar power for optimal consumption.

The SMA Home Energy Solution helps you cut your energy costs permanently, starting today. Harness the unlimited power of the sun to generate a cost-effective and sustainable energy source. This will help you become independent from your power company and protected against rising energy costs.

How to produce your own electricity.

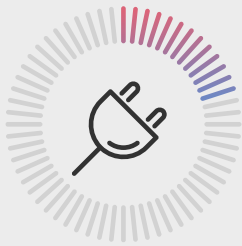
The SMA Home Energy Solution allows you to generate your own green electricity with your very own rooftop PV system. The electricity you do not use yourself is automatically fed into the utility grid. On the following pages you will learn how a storage system can make you even more independent of utility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

Benefits

- Quick and easy installation, can be flexibly expanded
- Maximum yields even with shading
- Free monitoring with the SMA Energy App
- 5+5-year warranty*

* After commissioning, the product must be registered in the SMA Online Service Center. Different deadlines apply for batteries and inverters. The terms of the SMA factory warranty apply.

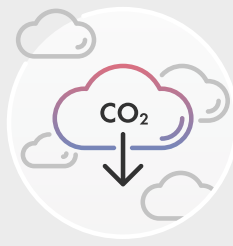
Further information is available at www.sma.de/en/service-support/warranty-cover-home



Up to 80% lower energy costs.*



Protect against rising energy prices.



Your contribution to climate protection.



Additional income from grid feed-in.

* If you implement all SMA Home Energy Solution applications.

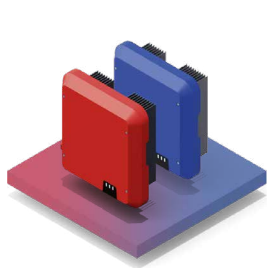
SMA PV and hybrid inverter

The heart of your personal PV power plant.

The SMA PV or hybrid inverter is the core of your SMA Home Energy Solution. It converts the direct current generated in 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 inverters convert the direct current from the PV modules to alternating current.



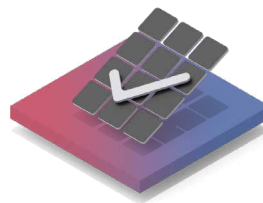
Hybrid inverter

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



System visualization and control

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



SMA ShadeFix

Maximum PV system yields in any situation – even in the shade – thanks to integrated SMA ShadeFix inverter software.



SMA Smart Connected

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



Store solar power use it flexibly.

Do you want to consume your own solar power in an integrated way, around the clock? If so, the SMA Home Storage Solution is the ideal all-in-one solution for your home.

Solar power in any weather.

The SMA Home Storage Solution comprises an SMA hybrid inverter and an electricity storage system. SMA hybrid inverters charge and discharge the electricity for the storage system very quickly which is a real benefit when weather varies and offers little sunlight.

The SMA Home Storage Solution ensures a reliable and sustainable electricity supply for your home, allowing you to become more independent from rising energy costs.

Benefits

- Compact all-in-one solution for generating and storing solar power
- Fast charging and maximum battery use even when there is little sunshine
- The secure power supply / battery-backup function ensures a reliable energy supply even during utility grid outages
- 5+5-years warranty for hybrid inverters*
- 2+8-years warranty for battery*

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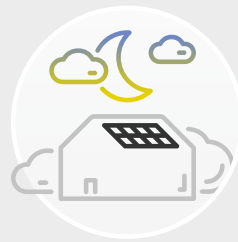
Further information is available at www.sma.de/en/service-support/warranty-cover-home



Save up to 80% on energy costs.*



Use more solar power yourself thanks to the electricity storage system.



Solar energy at your disposal 24/7.



Protect against rising energy prices.

* If you implement all SMA Home Energy Solution applications.

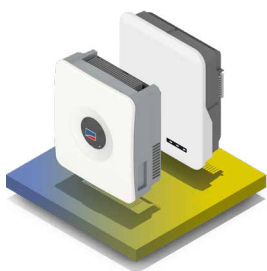
SMA hybrid inverter and
SMA electricity storage system

The strong heart for every home.

PV systems including the Sunny Tripower Smart Energy or the Sunny Boy Smart Energy can be expanded at any time. By adding a powerful electricity storage system, such as the SMA Home Storage you benefit from unparalleled flexibility and modular design. This means that your system is prepared even for future energy demands.

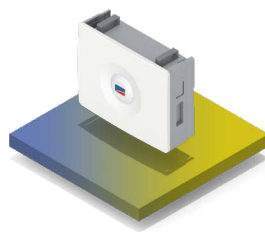


Solution components.



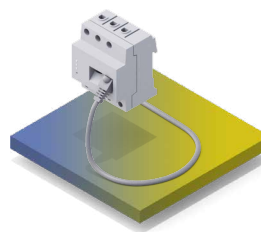
Hybrid inverter

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



Energy storage system

Stores the energy and makes it available again as needed. The SMA Home Storage is developed for intensive use, with around 8000 life cycles and 10 years of warranty.*



Energy manager

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



System visualization and control

With SMA Sunny Portal powered by ennexOS 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, charge your electric vehicle with climate-neutral power and manage your heating cost-efficiently. The SMA Home Energy Solution fully automates all of these processes for you. Intelligent energy management allows you to use your valuable solar energy with maximum efficiency.

The smarter way to manage your household power supply.

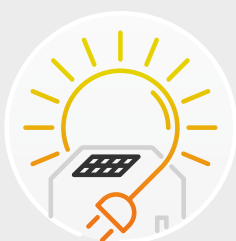
The SMA Home Manager 2.0 allows you to unlock the full potential of your SMA Home Energy Solution. To enable this, the Sunny Home Manager 2.0 connects the PV system with the heat pump, wallbox and other important household components to create an intelligent system – and automatically controls energy flows according to your energy demand.

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.

SMA energy manager

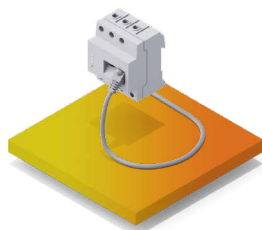
The SMA Home Energy Solution control center.

The Sunny Home Manager 2.0 measures and controls all energy flows in the home, identifies potential savings and enables efficient utilization of solar energy automatically.

To do so, it uses self-learning algorithms to create yield forecasts based on meteorological data and your individual load profile. In this way, the Sunny Home Manager 2.0 always knows when enough solar power is available and therefore when to charge the electric car in a climate-friendly and cost-effective way or when to turn on the washing machine.



Solution components.



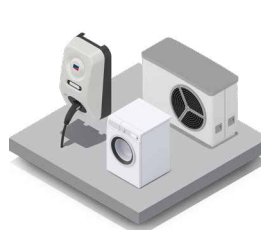
Energy manager

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.



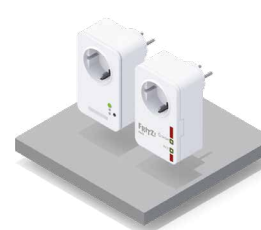
System visualization and control

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Direct controllable loads

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



Indirect 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



Charge with Solar Power.

Take advantage of solar energy when charging your electric vehicles – with the SMA Home eMobility Solution and the new SMA eCharger. Every kilowatt hour of solar power that you convert into climate-friendly mileage reduces the electricity you need to purchase from your electric utility company. This protects the environment and your wallet. After all, the sun delivers electricity to your home free of charge. It could not be any easier, cleaner or more cost-effective.

The perfect partner: PV system and e-mobility

Your SMA Home Energy Solution ensures that e-mobility makes both environmental and economic sense. It ensures that charging your electric vehicles is prioritized when sustainable and cost-effective PV electricity is available. This way, you can use a higher proportion of your self-generated solar power. This makes you less dependent on utility companies and rising electricity costs and helps ensure that your PV system quickly pays for itself.

Benefits

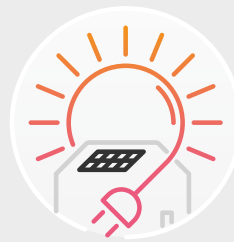
- Efficient use of self-generated power
- Intelligent charging modes from economic to fast without sacrificing convenience
- Charging processes can be controlled conveniently via the app
- Easy integration of new functions using over-the-air updates
- 5-year warranty



Up to 80% lower energy costs.*



Climate- and resource-friendly mobility – with no fossil fuels.



Solar-optimized charging at minimum cost.



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

* If you implement all SMA Home Energy Solution applications.

SMA Home eMobility Solution

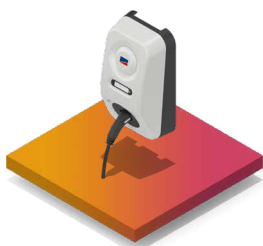
Flexible, efficient and innovative.

With the new SMA eCharger paired with the Sunny Home Manager 2.0, you have various charging modes at your disposal – from sustainable to very fast charging. With convenient approvals via the app or RFID card, you always retain full control and are well-equipped to manage the expense of charging when using a company car.*

Thanks to automatic phase-switching, you can charge even in times of low solar power generation and thus utilize the full charging potential of the sun. Power outage protection is integrated to ensure that the charging process is both fast and safe. SMA Smart Connected also monitors your SMA eCharger and, if necessary, automatically initiates immediate troubleshooting, ensuring you stay mobile.

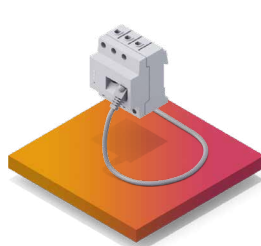


Solution components.



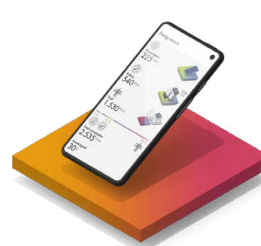
Wallbox

The PV-optimized SMA eCharger prioritizes self-generated solar power for charging electric vehicles, featuring a fast-charging function for a quick turnaround.



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.



Charging via the app

Thanks to the SMA Energy App, all the relevant information is at your fingertips and you can manage your charging processes with just a few clicks.



Heat with solar power.

With SMA Home Energy Solution, you can use your self-generated solar power for heating your home and water supply. You'll save on your utility bill and help protect the environment.

Use solar heat – even at night.

By integrating your heat pump or thermal storage system into the SMA Home Energy Solution, you can convert solar energy into heat. Or into hot water, which you can use even when the sun is not shining. In this way, you can use more of the solar energy you generate yourself, efficiently reduce your heating costs while also protecting the environment.

Benefits

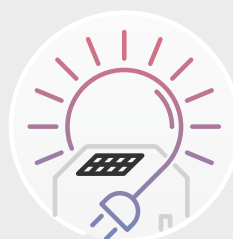
- Sustainable heating and immediate cost reduction
- Numerous compatible devices from renowned manufacturers can be integrated into the heating system
- Protect against rising energy prices



Save up to 80% on energy costs.*



Climate-friendly home heating – with no fossil fuels.



Heating with self-generated solar power.



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

* If you implement all SMA Home Energy Solution applications.

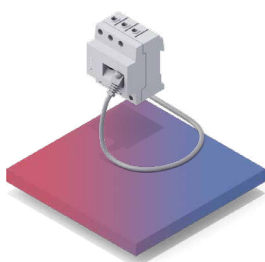
SMA energy manager

Cut your heating costs.

SMA Home Energy Solution allows you to operate a heat pump or heating element with your own solar power. Your Sunny Home Manager 2.0 controls the system so that solar power is prioritized for running the heat pump. Surplus energy is held in a storage system for use in the evening and at night, meaning that you will need less power from the grid once the sun goes down.



Solution components.



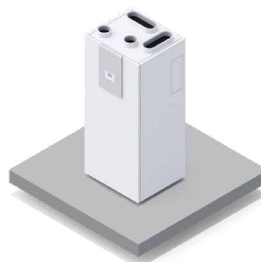
Energy manager

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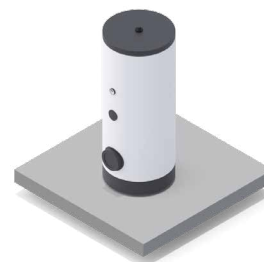
System visualization and control

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



Compatible heat pumps

Using solar energy, the heat pump converts ambient heat into heating energy in an environmentally friendly way.



Thermal storage system

Stores the heat produced by the heat pump for later use.



Compatibility list
for appliances

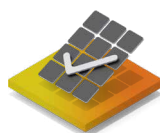


Why SMA?

With the SMA Home Energy Solution, you benefit from an thoughtfully designed, simplified system. 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 monitoring function automatically provides your installer with the correct diagnosis, enabling them to service the device with pinpoint accuracy.



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 conveniently control the charging of your electric vehicle from your smartphone.



SMA services and warranties.

Our SMA warranty offers you peace of mind.

- Free replacement inverter with all necessary updates, provision of a replacement device or repair according to service requirements
- Optional extended warranty

Unsurpassed 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. From cities to rural counties, and islands to mountaintops and everything in between.

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 devices, even in extreme weather conditions. To help ensure optimum product safety, we play an active role in formulating international standards.





SMA.de/en

