



SMA HOME ENERGY SOLUTION

I LOVE THE SUN

It doesn't send
energy bills.





Your SMA Home Energy Solution.

Power your home with the sun – free, abundant, and yours to capture every single day. With a PV rooftop system combined with our modular and expandable energy solution, you generate your own electricity and use it when you need it. Slash your energy bills by up to 80% and take control of your power. It's not just smart – it's the future. Join the energy transition today!

**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 the system to grow with your individual energy demand and can be built to suit any budget.



Generate solar power
for optimal consumption

— 04



Store solar power
and use it flexibly

— 06



Manage and distribute
solar power

— 08



Charge with
solar power

— 10



Heat with
solar power

— 12



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 protect you from rising energy costs.

How to produce your own electricity.

The SMA Home Energy Solution allows you to generate your own sustainable electricity with your very own rooftop PV system. The electricity you don't use yourself is automatically fed into the utility grid. Read on to learn how a storage system can make you even more independent of utility companies.

* After commissioning, register your product in the SMA Online Service Center to activate your extra 5-year warranty. Deadlines vary for batteries and inverters, and SMA Factory Warranty terms apply.

For full details, visit: www.sma.de/en/service-support/warranty-cover-home

Your benefits

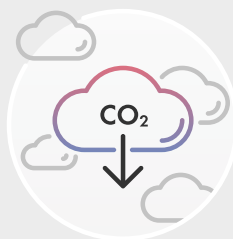
- **Become your own energy provider** – even during a power outage – with the SMA Backup Solution.
- **Future-ready:** our modular design ensures easy expansion and compliance with evolving regulations.
- **Reliable quality:** 5+5-year warranty* for inverters and free automatic fault detection with SMA Smart Connected.
- **Free and easy monitoring** of energy production with the SMA Energy App.
- **Worry-free operation** with ISO-certified cybersecurity and safety standards.



Save up to 80%
on energy costs.*



Shield yourself from rising
electricity prices.



Reduce your carbon
footprint.



Earn extra income by feeding
energy into the grid.

* If you implement all SMA Home Energy Solution applications.

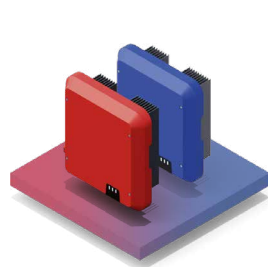
SMA PV and hybrid inverter

The heart of your personal PV power plant.

The SMA PV or hybrid inverter is the core of your SMA Home Energy Solution, transforming sunlight into usable energy by converting direct current from your PV modules into alternating current for your home. At the same time, you benefit from proven integrated software functions and intelligent services like SMA Smart Connected and SMA ShadeFix – maximizing performance and reliability.



Solution components.



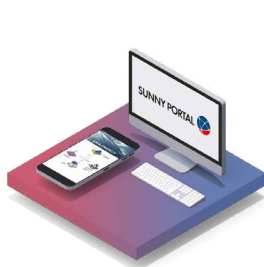
SMA PV inverter Sunny Boy or Sunny Tripower

Our best-selling PV inverters transform the sun's power into usable energy, converting direct current from your PV modules into alternating current for your home's appliances without battery storage.



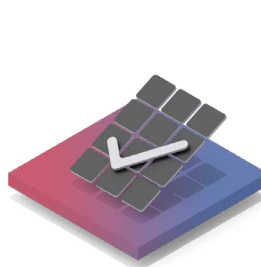
SMA hybrid inverter Sunny Boy Smart Energy or Sunny Tripower Smart Energy

PV and battery inverter in one, these inverters enable instant energy use and offer the flexibility to add a battery storage solution later – two essential functions in one powerful device.



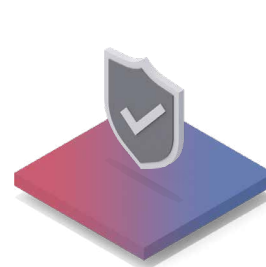
System visualization and control SMA Energy App and Sunny Portal powered by ennexOS

Visualize and monitor your entire energy system. Over one million PV systems in almost 200 countries enjoy the benefits of our secure platform. Your data are stored in the European Union.



Maximum PV energy output SMA ShadeFix

Why add extra components and compromise on safety? Our patented software is integrated into every SMA inverter, maximizing PV output – even in shading.



Inverter monitoring SMA Smart Connected

Outstanding proactive inverter monitoring that instantly triggers troubleshooting when needed – unmatched in the market. This ensures your system always gets the most out of the sun, smoothly and efficiently.



Store solar power and use it flexibly.

Do you want to use your own solar power seamlessly, day and night? The SMA Home Storage Solution is your all-in-one answer for total energy independence.

Solar power, no matter the weather.

The SMA Home Storage Solution includes an SMA hybrid inverter, a modular battery and a backup solution*. The inverter charges and discharges the battery quickly – maximizing every moment of sunlight. The result? Reliable, sustainable power for your home and greater independence from rising energy costs.

* The backup solution is integrated in the 3-phase Sunny Tripower Smart Energy and optional in the 1-phase Sunny Boy Smart Energy hybrid inverter.

** After commissioning, register your product in the SMA Online Service Center to activate your extra 5-year warranty. Deadlines vary for batteries and inverters and the SMA Factory Warranty terms apply.

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

Your benefits

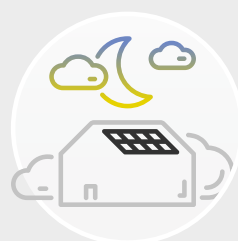
- **Efficient all-in-one solution:** 2-in-1 hybrid inverter and modular battery for rapid charging/discharging. This ensures faster investment recovery – even during blackouts – with the SMA Backup Solution.
- **Enhanced yields** with free integrated shade management.
- **Long-term security** with extended warranty: 5 + 5 years for hybrid inverters, 2 + 8 years for batteries.**
- **Worry-free operation** with ISO-certified cyber-security and safety standards.
- **Easy performance monitoring:** free SMA Energy App and automatic premium monitoring with SMA Smart Connected for minimal downtime.



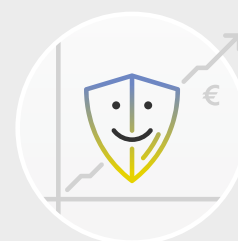
Save up to 80% on energy costs.*



Maximize self-consumption with smart energy storage.



Access solar power 24/7 – day and night.



Shield yourself from rising energy prices.

* If you implement all SMA Home Energy Solution applications.

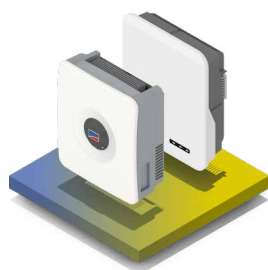
SMA hybrid inverter and SMA battery

The strong heart for every home.

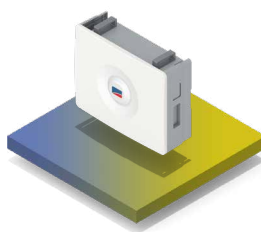
PV systems that include the Sunny Tripower Smart Energy or Sunny Boy Smart Energy can be expanded at any time. By adding a powerful battery like the SMA Home Storage, you gain unmatched flexibility and a modular design – ensuring your system is ready for future energy demands. The SMA Backup Solution protects you from power outages and offers a secure and reliable energy supply at all times.



Solution components.



SMA Hybrid inverter
Sunny Boy Smart Energy or Sunny Tripower Smart Energy
PV and battery inverter in one, these inverters enable instant energy use – two essential functions in one powerful device.



SMA battery
SMA Home Storage
Long-lasting, modular batteries with a sleek, stackable design allowing for a space-saving installation. They store the energy and make it available whenever you need it.



SMA Backup Solution
With our 1-phase and 3-phase backup solution, you can make the most of every ray of sunshine, even during a power outage. It's the perfect addition for a secure, reliable, and independent energy supply.



Energy manager
The Sunny Home Manager 2.0 is the brain of every energy solution. Probably the most advanced energy management system on the market, it monitors and controls all your energy flows delivering unmatched precision and efficiency.



System visualization and control
SMA Energy App and Sunny Portal powered by ennexOS
Visualize and monitor your entire energy system. Over one million PV systems in almost 200 countries enjoy the benefits of our secure platform. Your data are stored in the European Union.



Manage and distribute solar energy.

Power your home, charge your EV, and optimize heating – all with clean solar energy. The SMA Home Energy Solution automates it all for you. Intelligent energy management allows you to use your valuable solar energy with maximum efficiency.

The smart way to manage your household power supply.

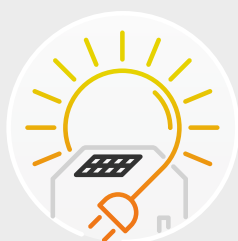
Unlock the full potential of your SMA Home Energy Solution with the Sunny Home Manager 2.0. It seamlessly connects your PV system with your battery, heat pump, wall box charger, and key household components, creating an intelligent energy network. By automatically managing energy flows based on your needs, it maximizes efficiency – so you get the most from your solar power.

Your benefits

- **Cost-efficiency and lower energy bills:** Maximize your self-produced energy and watch your utility bills shrink – effortlessly.
- **Independence:** Use more of your own energy and rely less on utility companies.
- **Transparency:** Gain clear insights into your energy production and consumption to better understand and optimize your usage.
- **Future-ready:** Automatic updates for new features such as flexible tariffs.
- **Convenience:** Compliance with local grid regulations.



Save up to 80% on energy costs.*



Optimize self-consumption.



Cut costs with smart energy management – without sacrificing comfort or convenience.



Combine energy sources and appliances into a seamlessly integrated energy system.

* If you implement all SMA Home Energy Solution applications.

Energy manager

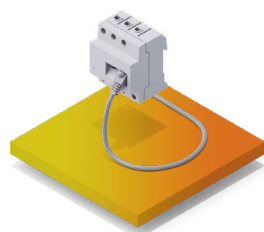
The SMA Home Energy Solution control center.

The Sunny Home Manager 2.0 monitors and controls all energy flows in your home, identifies savings opportunities, and optimizes solar energy usage automatically.

Using self-learning algorithms, it creates yield forecasts based on weather data and your personal energy consumption patterns. This allows it to intelligently manage appliances, ensuring your EV charges at the most climate-friendly and cost-effective times, or that your washing machine runs when solar power is abundant – maximizing efficiency and savings.



Solution components.



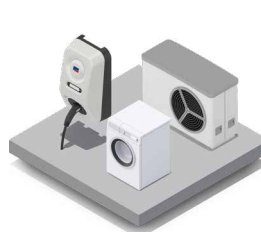
Energy manager

The Sunny Home Manager 2.0 is the brain of every energy solution. Probably the most advanced energy management system on the market, it monitors and controls all your energy flows delivering unmatched precision and efficiency.



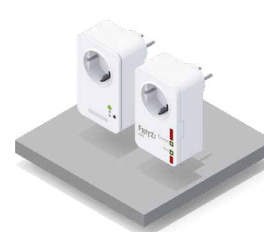
System visualization and control

SMA Energy App and Sunny Portal powered by ennexOS
Visualize and monitor your entire energy system. Over one million PV systems in almost 200 countries enjoy the benefits of our secure platform. Your data are stored in the European Union.



Direct controllable loads

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



Indirect controllable loads

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



[Compatibility list](#)
[Sunny Home Manager 2.0](#)



Charge with solar power.

Charge your EV the smart way – with solar power. The SMA Home eMobility Solution and the SMA eCharger let you power your car with clean energy from the sun. Every kilowatt-hour of solar power converted into mileage means less electricity bought from the grid – saving both the environment and your wallet. Easy, clean, and cost-effective – solar charging at its best.

The perfect pair: Your PV system and e-mobility

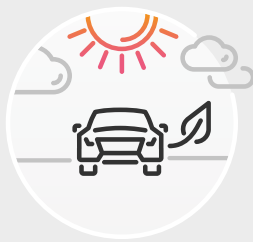
Your SMA Home Energy Solution makes e-mobility both environmentally and economically smart. It prioritizes EV charging when clean, cost-effective solar power is available, helping you use more of your own energy and rely less on the grid. That means greater independence from rising electricity prices and a PV system that pays for itself even faster.

Your benefits

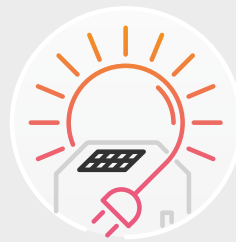
- **Drive sustainably and cut costs:** convert solar power into cost-effective driving, reducing fuel dependence.
- **Easy handling for peace of mind:** easy to operate, convenient to handle and ready for the future.
- **Convenient control** of charging processes with the SMA Energy app.
- **Safe operation** through overload protection and contact protection.
- **Peace of mind:** 5-year warranty and free automatic fault monitoring.
- **Ready for the future:** automatic updates for new features, flexible tariffs, and AC-Bidi ready.



Save up to 80% on energy costs.*



Drive climate- and resource-friendly – without fossil fuels.



Charge your EV with solar power at minimum cost.



Combine energy sources and appliances into a seamlessly integrated energy system.

* If you implement all SMA Home Energy Solution applications.

SMA Home eMobility Solution

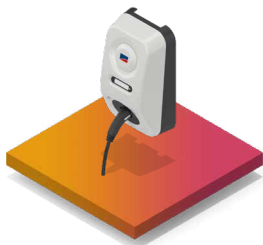
Flexible, efficient and innovative.

With the SMA eCharger combined with the Sunny Home Manager 2.0, you choose how to charge – from ultra-sustainable to extra-fast. With our convenient app or RFID card approvals, you always have full control over your charging processes.

Charge even in low sunlight with automatic phase-switching, making the most of your solar power. Plus, built-in power outage protection keeps charging both safe and reliable. And with SMA Smart Connected, your SMA eCharger is monitored 24/7 – triggering automatic troubleshooting when needed, so you stay powered and on the move.



Solution components.



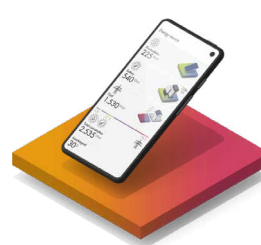
Wall box charger

The **SMA eCharger** is your PV-optimized charging solution, powered by solar expertise, easy setup, seamless management, and future-ready innovation. In combination with the Sunny Home Manager, it charges your e-vehicle at minimum cost when solar energy is available or especially quickly if you're in a hurry.



Energy manager

The **Sunny Home Manager 2.0** is the brain of every energy solution. Probably the most advanced energy management system on the market, it monitors and controls all your energy flows delivering unmatched precision and efficiency.



Charging via the App

Charge your EV smartly with the **SMA Energy App**. Access all relevant information instantly and manage your charging processes with just a few clicks.



Heat with solar power.

With the SMA Home Energy Solution, you can use your self-generated solar power to heat your home and water. This reduces your utility bill while helping protect the environment.

Enjoy solar heat – even after sunset.

By integrating your heat pump or thermal storage system into the SMA Home Energy Solution, you can convert solar energy into heat or hot water – ready to use even when the sun isn't shining. This lets you maximize your self-generated energy, cut heating costs, and reduce your environmental impact.

Your benefits

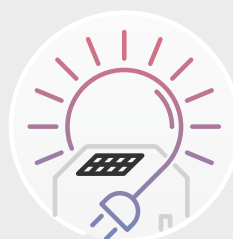
- **Reduced energy costs:** Save up to 80% on energy bills.
- **Boost self-consumption:** A flexible, high-energy device such as a heat pump maximizes use of self-produced power.
- **Strong partnerships** with manufacturers of heating solutions ensure perfect coordination – for maximum reliability and smooth operation.
- **Convenience:** Control and monitor all your loads with the SMA Energy App.
- **Sustainable living:** Enjoy resource-friendly energy – without fossil fuels.



Save up to 80% on energy costs.*



Become independent from fossil fuels.



Heat your home with self-generated solar power.



Combine power sources and appliances into an integrated energy system.

* If you implement all SMA Home Energy Solution applications.

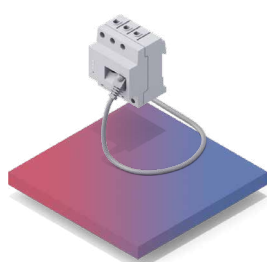
SMA energy manager

Cut your heating costs with solar power.

The SMA Home Energy Solution lets you power your heat pump or heating element with your own solar energy. Your Sunny Home Manager 2.0 ensures solar power is prioritized for heating, while surplus energy is stored for use in the evening and at night. That means less reliance on the grid and lower energy costs – day and night.



Solution components.



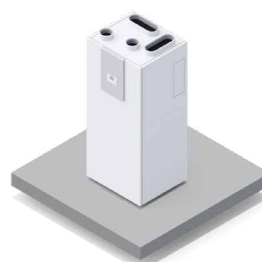
Energy manager

The Sunny Home Manager 2.0 is the brain of every energy solution. Probably the most advanced energy management system on the market, it monitors and controls all your energy flows delivering unmatched precision and efficiency.



System visualization and control SMA Energy app and Sunny Portal powered by ennexOS

Visualize and monitor your entire energy system. Over one million PV systems in almost 200 countries enjoy the benefits of our secure platform. Your data are stored in the European Union.



Monoblock heat pump and thermal storage

The SMA Home Energy Solution seamlessly connects with over 4,500 compatible heat pump models and thermal storage systems from leading brands like Samsung, Stiebel Eltron, Vaillant, MYPV and more. Integrated EEBus and SG Ready interfaces ensure smooth and efficient integration for optimal energy management.



Compatibility list
for appliances

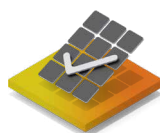


Why SMA?

With the SMA Home Energy Solution, you benefit from a thoughtfully designed and 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 your PV modules. Our 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 setting the standards for the decentralized, digital and renewable energy supply of the future. In private homes, hotels, agricultural or commercial enterprises and in power plants. From cities to rural counties, 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. We help ensure optimum product safety through playing an active role in formulating international standards.





SMA.de/en

