



**SUNNY BOY**





**Flexible.  
Extendable.  
Effortless.**

Now is the time for smart investments – for a more independent energy supply. The Sunny Boy 240 and its micro inverter system make it incredibly easy for you to take the first step. And the next one. And the next one after that. It's up to you how far you want to go. Because the modular design makes you more flexible than ever and allows you to achieve much higher yields than with other comparable systems.

#### **Take control of your energy supply ...**

##### **... because it's a way for everyone to shape the future**

Electricity generated from the power of the sun produces neither harmful greenhouse gases nor dangerous waste. And what's more, it covers the world's energy demands many times over.

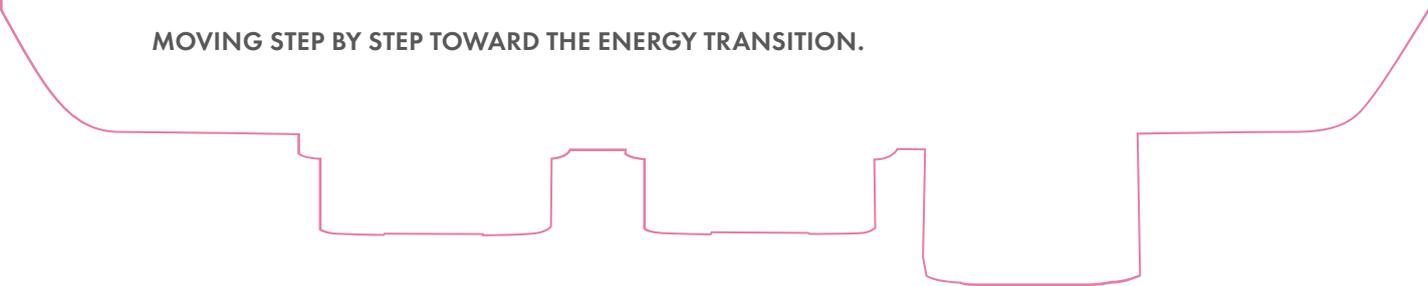
##### **... because it's clean, safe and economical**

In Germany today, more than 1,000,000 PV systems generate clean and safe energy. On a sunny day, they produce more electricity than all German nuclear power plants put together.

##### **... because it's definitely worth it**

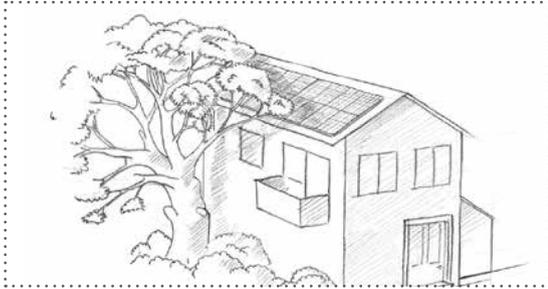
The cost of generating solar energy is less than the cost of purchasing household electricity. In other words, the more you consume self-produced solar energy, the more profitable your PV system becomes.

**MOVING STEP BY STEP TOWARD THE ENERGY TRANSITION.**



# The Sunny Boy 240 – Small, Practical, Flexible

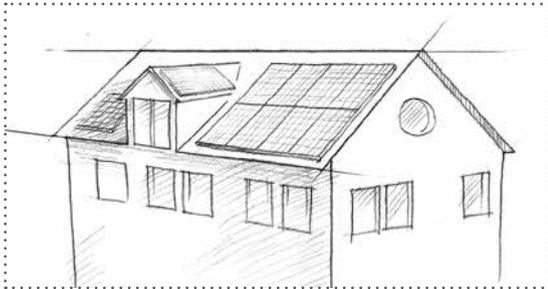
Compared to conventional inverters, a whole new range of opportunities is available with micro inverters. The Sunny Boy 240 is much smaller, can be easily combined and is installed on your roof right under each PV module. Now, there are no more limits to photovoltaics – regardless of the given location. For complicated roof constructions, partial shading, or limited space no longer pose obstacles to setting up your own PV system! Under these conditions, the system delivers an improved energy yield because each module produces energy independently and at the highest possible level.



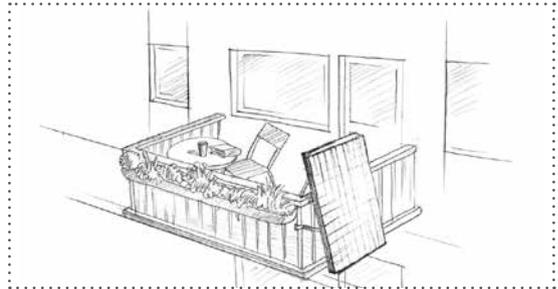
*Partial shading is no longer an issue. With conventional string inverters, partial shading usually affects the entire system and so adversely impacts yield. But with a micro inverter system, modules that are not affected continue to operate at top performance.*



*Does your roof face in different directions? Here too, a feed-in system comprising individual inverters is the solution: Uneven irradiation conditions may even be of advantage because energy can be consumed more efficiently and throughout the day.*



*The independently operating modules enable optimum usage of all roof surfaces – whether dormers, eaves or a surplus module with an odd number. Even string-based systems can be easily expanded.*

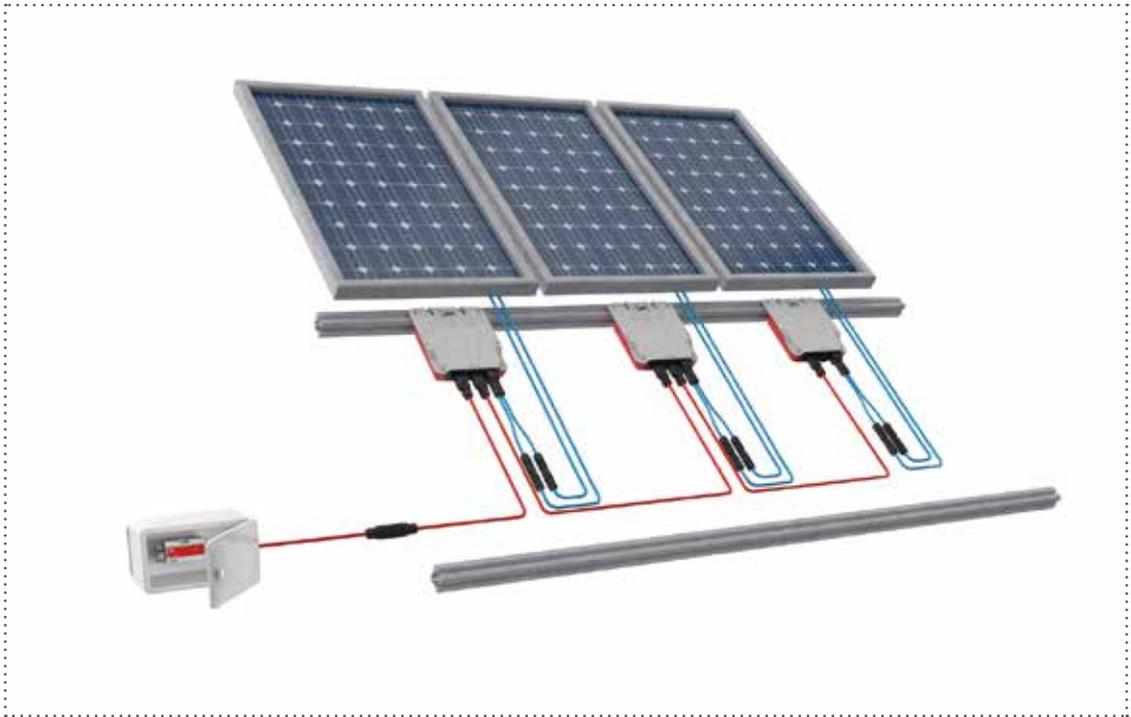


*Now operating one's own mini system is even possible for flat or garden owners. Whether on the balcony railings or on top of a tool shed – anyone can generate their own clean and low-cost electricity wherever there's space. Seize this opportunity, too!*

**PARTIAL SHADING, RECESSED ROOFS, DORMERS? NO PROBLEM.**

## Compact, Combinable and Cost Effective

Simple plug-in connections with provided preconfigured cables combine each Sunny Boy 240 both with its accompanying module and with each other in a so called daisy chain configuration (see below). The direct current obtained from the sun is passed through a DC cable directly into the Sunny Boy 240. Via AC cables, it is further transported as alternating current to the associated Sunny Multigate. This is where the power is fed into the household grid. Up to 12 inverters can be connected to a Sunny Multigate. These units are combinable with one another. This allows you to choose the size of your system and hence the capital expenditure costs.



*In a daisy chain configuration, up to 12 solar modules are connected in parallel via the associated micro inverter.*

**NOW EVERYTHING SPEAKS IN FAVOR OF A PV SYSTEM.**

# Perfectly Aligned Components



Now, each module can be used individually, giving you more flexibility than ever.



Performance in a new format: The Sunny Boy 240 enables independent module performance.



The Sunny Multigate is interface and communication unit between the micro inverter and Sunny Portal, as well as between grid and PV system.



Practical connectors make the complex and time-consuming task of preparing connection cables a thing of the past.\*

\* The Sunny Multigate must be installed and connected by a qualified solar power professional.

**GREATER INDEPENDENCE – MODULE BY MODULE.**

# Keeping Track of Each Module's Performance

As the owner of an SMA PV system, you can keep constant track of your system and the performance of each individual module: From the very first day of installation, the Sunny Portal online service records all the relevant energy generation data and presents it in a user-friendly format. Using your personal login details, you are able to access your system data from wherever you are. Whether you use a computer, smartphone or tablet, the only thing you need is an Internet connection. If any irregularities occur,

Sunny Portal sends an email either to you or, if you prefer, straight to your solar power professional. Service measures can thus be initiated quickly, without any hassle and specially tailored to your system.

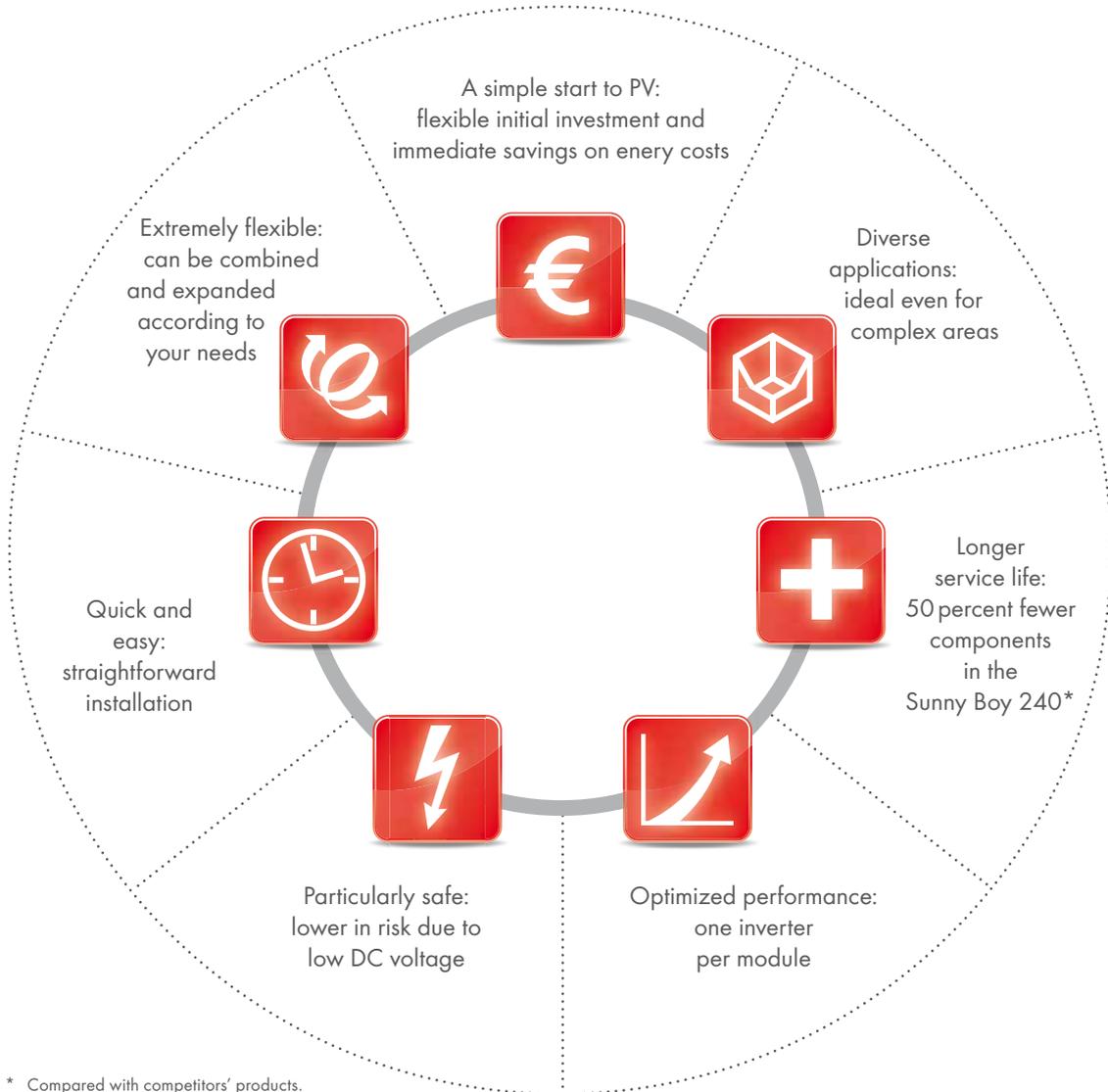
All the relevant data is sent by the Sunny Multigate via Ethernet to Sunny Portal. Its standard access to Sunny Portal makes the Sunny Multigate a most ideal solution for intelligent energy monitoring.



Keeping track of your system's performance: Sunny Portal visualizes all relevant data particularly user-friendly.

**STAY INFORMED – WITH SUNNY PORTAL.**

# The Key Benefits at a Glance



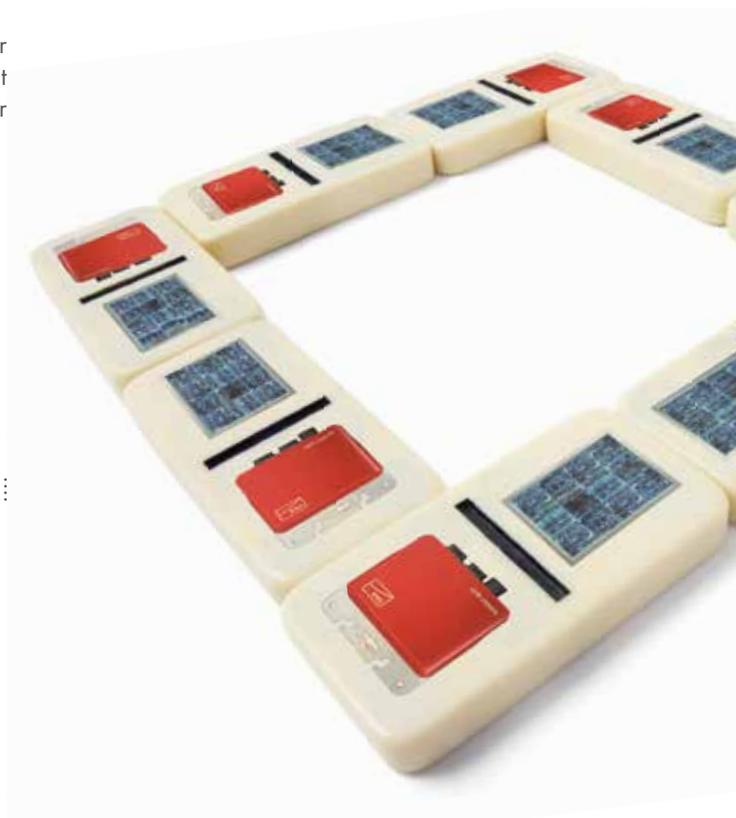
\* Compared with competitors' products.

**EXPAND YOUR SYSTEM AS NEEDED.**

# Your Next Step ...

**Do you want to find out more?**

Simply make an appointment with a qualified solar power professional. Either use the search function at [www.SMA.de/en/solar-power-professional-search](http://www.SMA.de/en/solar-power-professional-search) or contact your favored professional directly.



**LEARN MORE ABOUT SUNNY BOY 240.**

**ENERGY  
THAT  
CHANGES**

