

POWER TO THE PEOPLE.



SOLARWATT. PRODUCE, MANAGE AND STORE SOLAR ENERGY.

 **SOLARWATT**[®]
power to the people

The SOLARWATT Mission.

POWER TO THE PEOPLE.



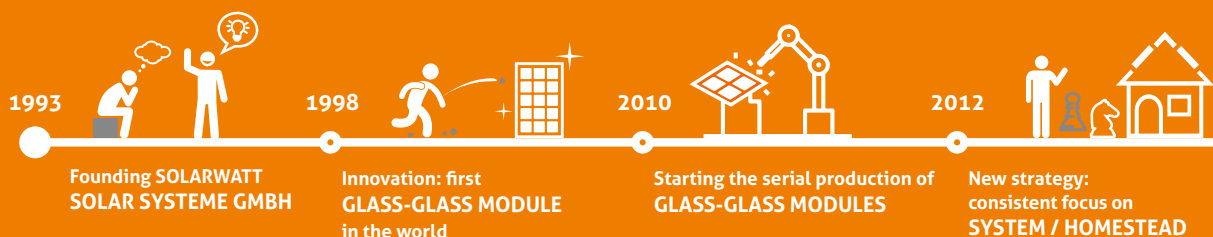
While politicians are still discussing the energy system transformation in abstract terms, customers can already buy market-ready solutions from us.

Detlef Neuhaus, CEO SOLARWATT

With millions of homeowners relying on solar power installed worldwide, solar energy is undoubtedly a key figure for our energy future. We have been designing and producing full solar systems for homeowners in Dresden since 1993. Today, we are the only one to manufacture all essential PV components ourselves.

SOLARWATT modules efficiently and ecologically transform solar power to electricity. Our batteries and energy management systems help increase the consumption of self-generated energy while reducing the use of grid electricity. By enabling perfect interaction of our components, we help you lower your energy costs dramatically while sparing the environment.

Our path to market leadership. 25 years of experience.





The name SOLARWATT stands for photovoltaic systems of highest quality, made in Germany. A quality of which we are convinced: That's why we offer extensive guarantees on our components. But independent experts are also convinced of our photovoltaic solutions: modules, battery and energy management have been awarded numerous prestigious prizes.

Today, SOLARWATT is the market leader for innovative glass-glass modules and one of the world's leading manufacturers of power storage devices. But there is still a lot to do. I invite you to join us in taking a small step towards a better future. With your solar system solutions from SOLARWATT.

Sincerely,
Detlef Neuhaus



2013
Introducing energy controls
ENERGYMANAGER



2015
MYRESERVE sets
technological standards for
batteries



2017
Implementing modularity for
MYRESERVE



2019
power to the people:
**RENEWABLE ENERGY
FOR ALL**





Glass-glass modules – durable and efficient.

FREE SOLAR POWER FOR DECADES.

Of all the components of a photovoltaic system, the modules are most exposed to environmental stress. Temperature differences of 50 ° Celsius and more, pressure loads from wind and snow, UV radiation and aggressive gases can damage the delicate solar cells. This is why we rely on glass-glass technology for our modules.

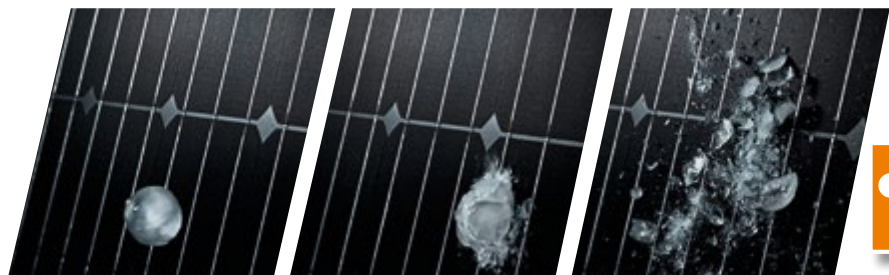
Ordinary modules have only a plastic foil on the back. Once this flimsy barrier has been damaged, the modules lose their performance drastically or no longer function at all. We therefore enclose the cells in resilient glass from both sides.

The central advantage lies in the material properties: glass does not age. It is weather- and UV-resistant and can dissipate pressure loads evenly. Our specially hardened glass withstands large hailstones and even the blows of a hammer.

Resilient to heavy hail

Test approved!

Environmental stress, like hail storms can harm solar modules. Our modules have proven their robustness in various tests.

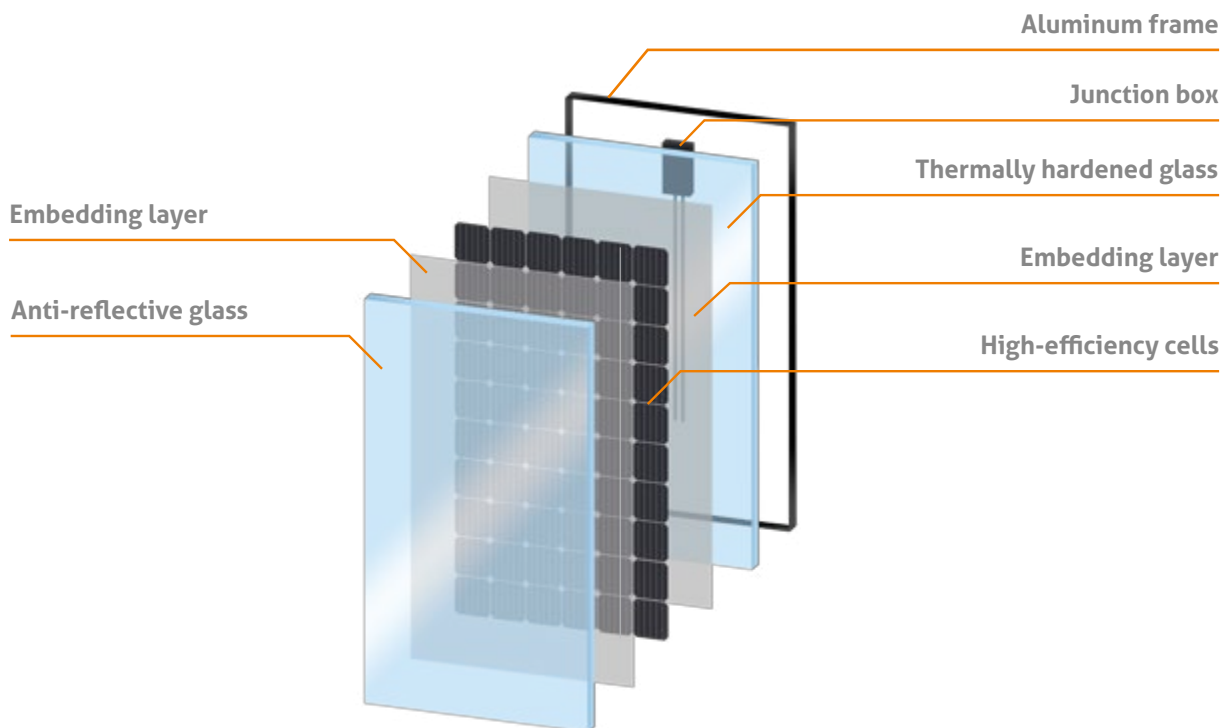


Glass-glass module: robust and powerful

Layered structure

Glass-glass modules consist of two hardened, 2mm thick glass panes. Between them are the solar cells and embedding material.

These layers are joined together by lamination, creating a watertight and airtight compound. A stable aluminum frame secures the entire construction.



Impervious to environmental influences

The glass panes applied and laminated together from both sides prevent invasion of dampness, vapour or aggressive chemicals, like ammonia. This ensures stable yields for decades.

Withstands heavy loads and impacts

The hardened glass protects the solar cells from heavy hail, high wind pressures and snow loads as well as other mechanical stress, preventing the cells from cracking and breaking. This, too, ensures the long service life.

Resilient against:



Wind



Sand



UV radiation



Ammonia



Salt spray

More power for your money.

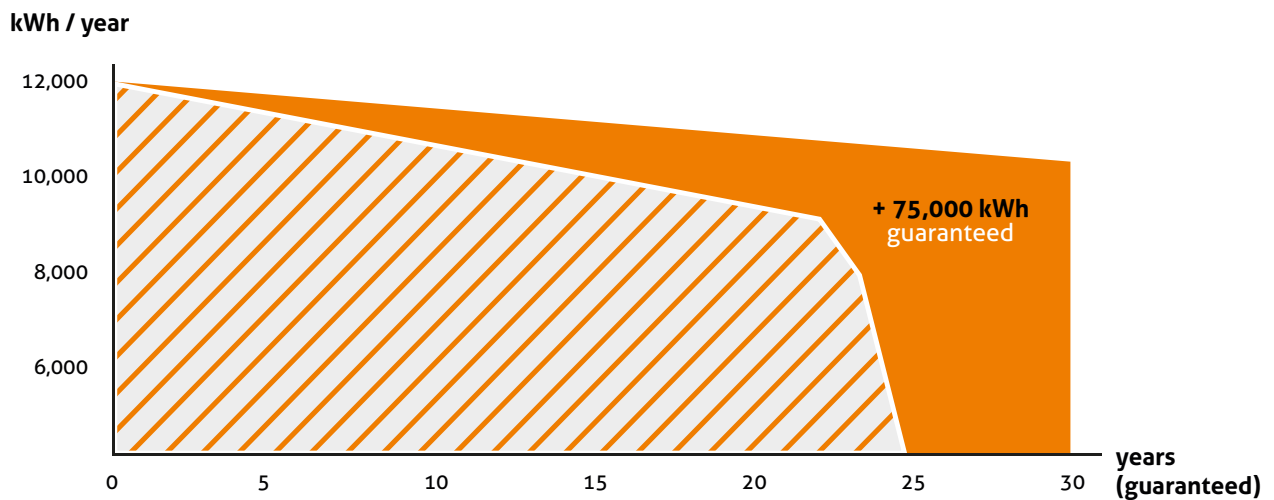
SUSTAINABLE INVESTMENTS FOR FUTURE ENERGY.



The service lives of different types of solar modules vary significantly. Considering the profitability, the rate of investment to outcome must be determined for the entire service life of the modules.

Reasons to invest in glass-glass modules

Glass-foil modules have a maximum service life of 25 years. Due to poor material properties the performance decreases dramatically over time.

Glass-glass modules, on the other hand, have a service life of 40 to 50 years and the performance is stable due to optimal protected cells. After only 30 years (SOLARWATT's guarantee period) the additional yield of a 10 kWp installation is 75,000 kWh.



	 Glass-foil	 SOLARWATT Glass-glass
Product guarantee	12 years	30 years
Performance guarantee	25 years	30 years
Yields	260,000 kWh*	335,000 kWh*

* based on a simulated 10 kWp, 30°, south installation in Munich (PV Sol)

SOLARWATT Glass-glass-modules

30 % more kWh guaranteed

15 % less electricity production costs

2 × doubled product warranty period

5 years insurance included

Esthetics.

AN EYE CATCHER ON THE ROOF.

Solar modules are widely installed on roofs or facades, visible from afar. An esthetic appearance therefore plays an important role. Black solar cells with a black module frame made of anodised aluminum ensure the homogeneous appearance of your installation. A special anti-reflective glass prevents disturbing reflections.



Vision 60M style

- black aluminum frame and translucent back
- 60 PERC high performance cells
- 2 mm thin, hardened glass panes



Vision 60M high power

- black aluminum frame and white back
- 60 high performance cells
- white back maximizes yields





Solar power around the clock.

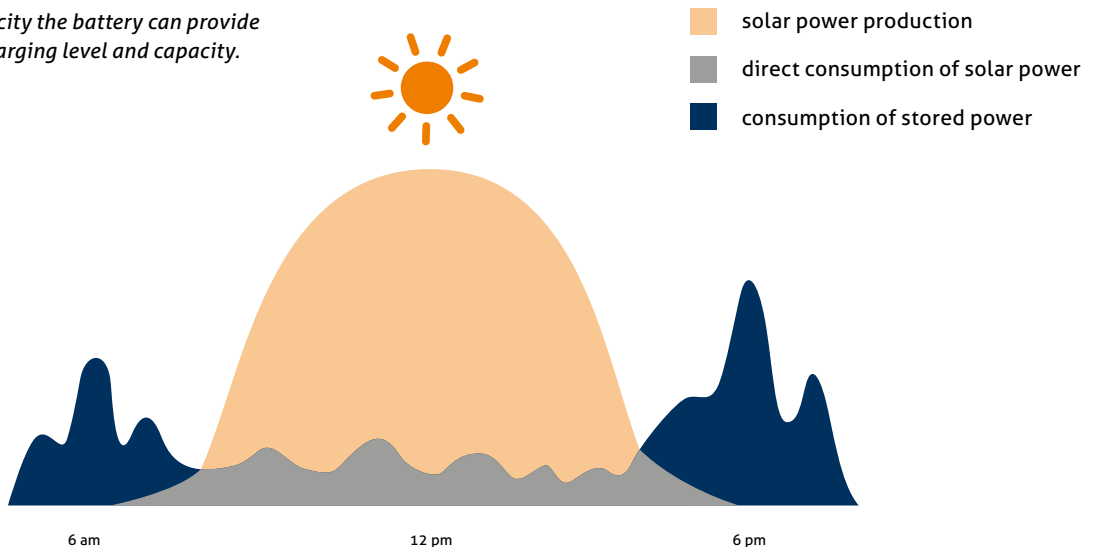
MORE INDEPENDENCE, LOWER ENERGY COSTS.

The demand for energy is highest, when the sun is not shining: in morning and evening hours. With our batteries, the self-generated power can be used, when it is needed. This lowers your electricity costs.

During the day, the battery is charged with surplus solar power. Whenever the power demand is higher than the solar power generated, the battery then provides electricity, averting the need to use costly power from the grid.

The battery allocates solar power, when it is needed

How much electricity the battery can provide depends on its charging level and capacity.



MyReserve: A battery growing with its demands

MyReserve is the first fully modular battery in the world, consisting of a control unit and battery packs. The more components are combined, the more storage capacity and power can be provided.

To enhance your PV system or use your solar power for e-mobility: Our battery can be scaled according to your individual needs.

A modular battery customized for individual needs

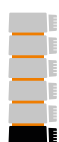
7.2 kWh



=



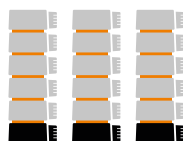
12 kWh



=



36 kWh



=



A battery of 7.2 kWh is enough to provide energy for a family of three.

Whenever more electric consumers, like heat pumps, are added, the system's capacity should be extended.



MyReserve is built modular, with a control unit (Command) and battery packs.

Highest efficiency for more usable solar energy

When choosing a suitable battery, not only the right capacity, but reaction speed and efficiency are also to be considered. With MyReserve you can achieve an economic optimum without wasting energy and thus save more than 8,000 kWh*.

- ✓ **Fastest reactions on alternating energy demands**
- ✓ **Less energy loss due to minimum number of conversions**
- ✓ **Smart charging management ensures a long service life**

* based on a 7.2 kWh battery over the course of 10 years

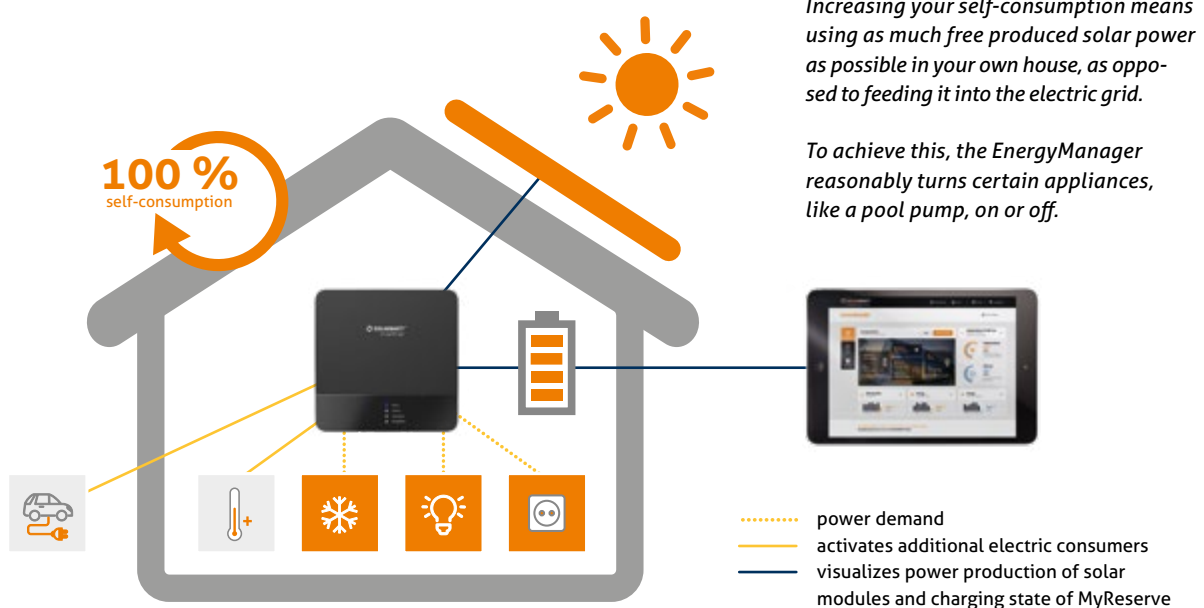


Increasing self-consumption means increasing your independency.

SMART ENERGY MANAGEMENT LOWERS ENERGY COSTS.

The EnergyManager measures, controls and visualizes all processes of your solar system and electric consumers. The intelligent commands ensure your solar power is used where it is needed most. The EnergyManager thus is a central building block for a smart home.

Maximize your self-consumption



Have all your PV-system's data at hand

All data is collected in the EnergyManager: the amount of produced and consumed electricity, how much energy is stored, fed into or taken from the electric grid. All the processes are shown in clear diagrams.

Switch automatically or manually

With the web-based EnergyManager portal you can control all your electric consumers from anywhere, anytime. The automated switches are based on learned algorithms or can be programmed individually.

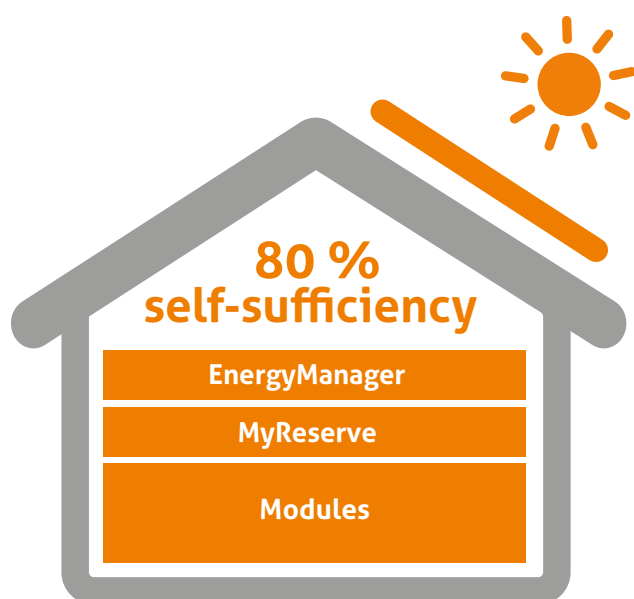
Incorporating e-mobility and more

Whenever the PV-system produces surplus energy, electrical vehicles can be fully charged. E-mobility is only fully eco-friendly and profitable when charged with your own solar power. And even when the sun doesn't shine: the EnergyManager will adjust the charging process to have the electric car fully charged at your desired departure time.

Besides electric vehicles and batteries, more large-scale consumers, like heating elements for water heating or a heat pump, can be added to the energy management system.



Increasing self-sufficiency



Being self-sufficient means producing most of your energy yourself. With our modules, our MyReserve battery and our smart energy management you can achieve an autarcy rate of up to 80 %.

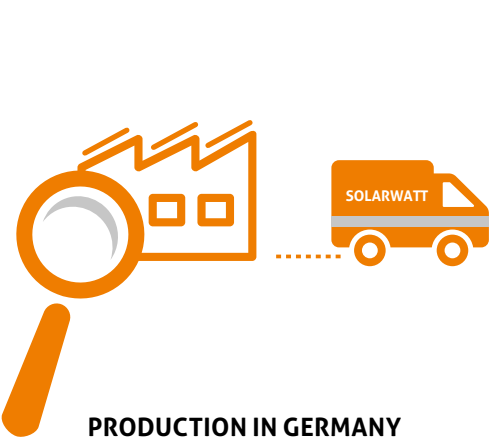
Every component of the SOLARWATT solar system contributes to increasing self-consumption of solar power and minimizing your electrical bills. Combining all components achieves maximum outcomes.



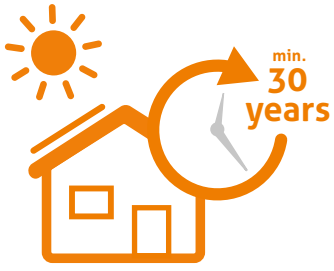
Eco-friendly.

TO MAKE YOUR ENERGY TRULY GREEN.

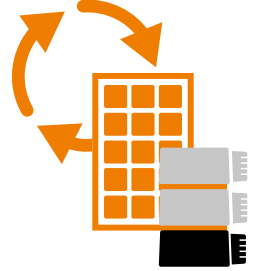
Photovoltaics is a particularly ecofriendly source of energy. The decisive factors for the environmental balance are resource-efficient and low-emission productions, a long service life and high recycling rates.



PRODUCTION IN GERMANY
We produce according to high German environmental and social standards and control all our suppliers. All SOLARWATT production lines and locations run on 100 % eco-power.



LONG SERVICE LIFE
All our products have a very long lifespan and the components are individually replaceable. This reduces the amount of waste drastically.



TAKING BACK AND RECYCLING
We take back all worn out products. Due to our modular systems, we can disassemble and separate the materials homogeneously. This makes recycling much easier.

OUR CUSTOMERS SHARE THEIR EXPERIENCE.

You invest a lot to achieve constant high yields. For your independency and peace of mind, you need technology, that is not only powerful, but also robust, reliant and long-lasting. This is what our customers say about their SOLARWATT products.

// *We actually only used our washing machine when the sun was shining, to optimize our consumption a little ourselves. With EnergyManager and MyReserve this now runs all automatically. We are almost independent from the outside world, especially from our energy suppliers.*



**Family Keller
Germany**



**Martina Schagerlund
Sweden**

// *The main strategy at Lindholms Gård is to always work towards sustainability and diversity. Our PV system from SOLARWATT with 30-year warranty correlates well with our strategy and brand.*

// *Investing in solar energy is an investment in the future. I chose SOLARWATT glass-glass modules because they are extremely reliable, efficient and durable.*



**Mr. Salles
France**



FUTURE ENERGY? GUARANTEED FOR 30 YEARS.

With a product and performance guarantee of 30 years, SOLARWATT ensures constant high yields and thus a carefree energy future. We also provide a 10-year performance guarantee for our battery, exceeding the statutory provisions by five-times. A true plus for our customers, society and our planet.

Solar modules

To underline our confidence in our products, we provide a 30-year product and performance guarantee on all glass-glass modules. After 30 years, our modules are guaranteed to still hold at least 87 % of their original performance.

If damage occurs and repair can not be carried out on site, we replace the modules with new ones – always using the latest version, of course.

The exchange is just as free of charge as the transport, which we naturally take care of. In the event of a guarantee claim, owners of SOLARWATT systems incur as little effort as possible.

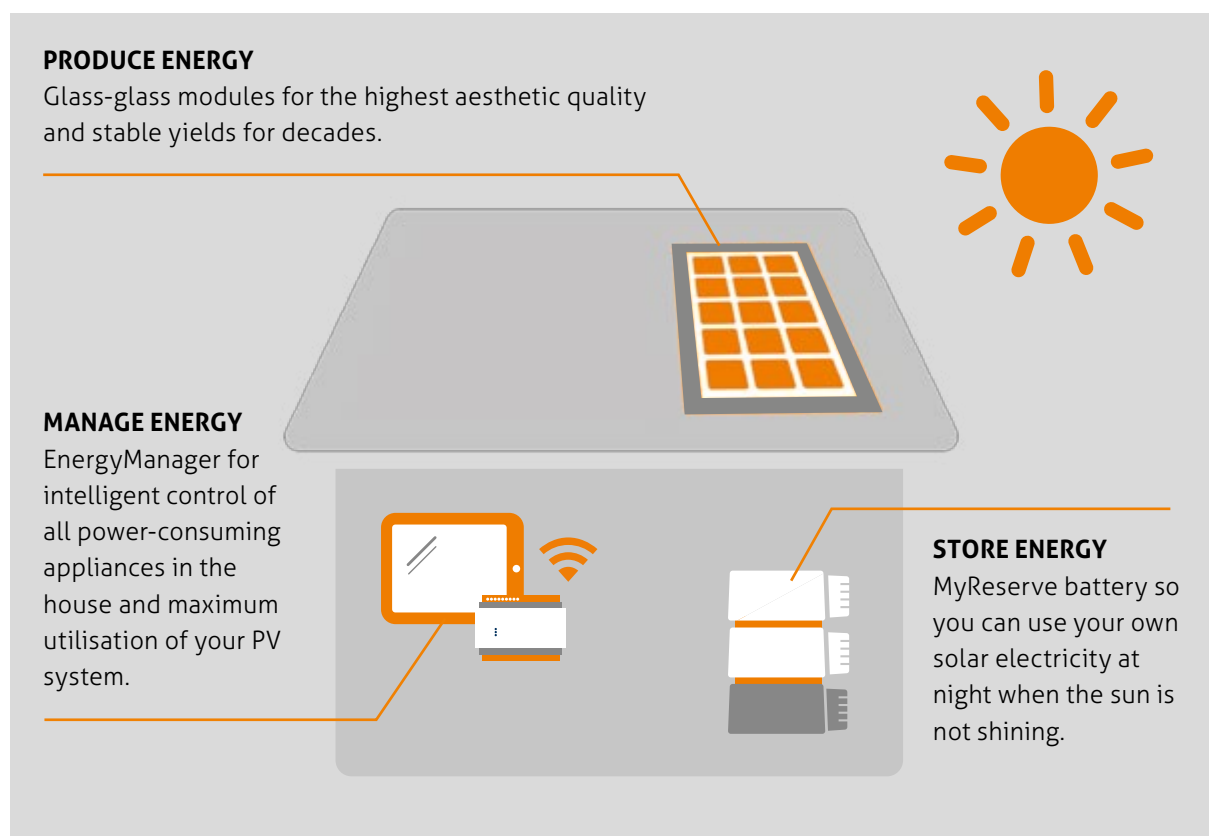
MyReserve

We guarantee that your MyReserve battery will last at least 10 years – and then still hold 80 % or more of its original storage capacity. With no limitation to the number of charge cycles. If not, we will repair your MyReserve free of charge or simply replace the affected battery pack.



POWERFUL AND COST-EFFECTIVE. THE SOLARWATT SYSTEM APPROACH.

SOLARWATT is the only supplier to produce all the essential components of your solar system itself: PV modules, energy managers, and battery storage. These building blocks complement each other perfectly and using them together strengthens their efficacy. The result for you: maximum efficiency and independence.



DE **Made in Germany**
As a German company we develop and produce all components at our locations in Dresden and Frechen (near Cologne). **+**

30 **30 Year Warranty**
We guarantee that your PV modules will function for 30 years and still provide at least 87 % of their original output. **+**



If you have any questions, please do not hesitate to contact us:

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SOLARWATT

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STORE ENERGY.**

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