

THE BATTERY FUTURE IS MODULAR.



MyReserve. THE WORLD'S MOST EFFICIENT BATTERY.

 **SOLARWATT**[®]
power to the people

MyReserve – fits perfectly, no matter what you have planned.

SOLAR POWER AROUND THE CLOCK – MORE INDEPENDENCE, LOWER ELECTRICITY COSTS.

A battery is the ideal complement to any photovoltaic (PV) system. It stores the electricity your roof produces during the day for when you need it most: in the evening. You save up to 80 % of your electricity costs. And thanks to its modular design, it fits your individual electricity needs perfectly.

Two compact building blocks – one common goal.

MyReserve Command – the intelligent control unit for maximum usable power

The MyReserve Command contains all the battery's power electronics. Connectors, sensors, software – all packed together in one space-saving, durable aluminum housing. This control unit is built to ensure that you can use the power you generate yourself optimally – and have to buy as little grid power as possible. This way you get more energy from each ray of sunshine!

MyReserve Pack – the compact battery for optimum capacity

With its outstanding battery efficiency of 99.2 %, the MyReserve Pack is the most efficient battery module in the world. This means you can rely on MyReserve to store your solar power efficiently. You can use the energy you generate yourself exactly when you need it. Each lithium-ion battery module has a capacity of 2.4 kWh.



Download
MyReserve App
at the App Store
or Google Play



Get more out of each ray of sunshine.

IT PAYS FOR ITSELF.

With its exceptional efficiency, MyReserve sets the benchmark in the storage market. Cover up to 80 % of your average annual power requirements with your own rooftop solar system – on some days even up to 99 %! The key to this: optimized consumption. With these unique operating protocols, your MyReserve secures you as much free solar energy as possible instead of expensive grid electricity:

Highest reaction speed

Many electrical devices such as induction ranges or coffee machines demand power for just a few seconds which creates short-term consumption peaks. Conventional batteries cannot react fast enough to meet this sudden demand and household appliances end up using expensive grid electricity. MyReserve registers demand immediately and delivers electricity in almost real-time.

Clever battery management system

An intelligent management system is the heart of our efficient battery. The system monitors hundreds of system parameters every second and optimizes charging and discharging.

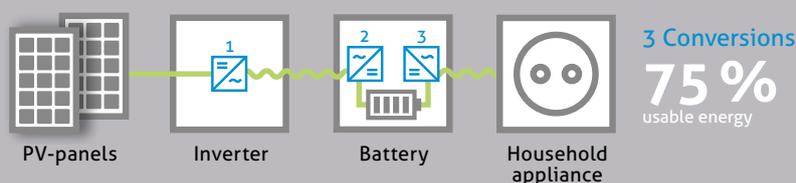
This is how MyReserve achieves not only the fastest reaction speed, but also a particularly long battery cell life.

Less conversion loss.

MORE USABLE SOLAR POWER.

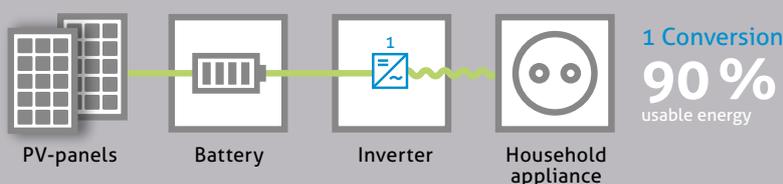
PV (photovoltaic) modules produce direct current (DC) and batteries store electricity in DC as well. Households, however, use alternating current (AC). The DC power must be converted to AC power and this conversion is performed by the inverter.

STANDARD AC BATTERY



Electricity from the roof goes through an inverter and is converted into alternating current. If it is sent to a **conventional battery**, it is converted back into direct current. Then as the battery discharges the current must be converted once again to alternating current. With each conversion you lose some of your precious solar power and end up with only 75 % for your own use.

MYRESERVE: DC COUPLED



MyReserve, on the other hand, is installed before the inverter. It stores the direct current from the PV system. Only when the electricity is consumed in the household is it converted into alternating current. This leaves over 90 % of your own solar power available – that pays off!



**MyReserve environmental concept:
Resource-saving manufacturing, easy recycling.**

SO YOUR GREEN ELECTRICITY STAYS THAT WAY.

With SOLARWATT, you not only get products which supply environmentally friendly electricity, but also products that pollute the environment as little as possible.

During its service life, MyReserve stores about ten times more clean energy than was necessary for its production – a powerful plus for the environment. The compact design of MyReserve means its production requires very few materials and saves space during storage and transport. SOLARWATT is committed to constant improvement of each product's ecobalance and MyReserve is no exception. It is a significant improvement on preceding models.

The modular design is not only green for new installations, but also for repairs! If an exchange is necessary, only the affected module has to be replaced and transported and not the entire battery. Short production distances also help the environment and, excluding the battery cells, all MyReserve components are produced directly in Germany.

Even during the product development of MyReserve, SOLARWATT was thinking of future recycling. All components are designed to be dismantled easily and damage-free. The reuse rate of the components produced by SOLARWATT is, at 86 %, an industry trend-setter.

MyReserve is your battery with sustainability built-in.

Highest physical safety. Uncompromising data security.

SAFETY IS NON NEGOTIABLE.

Maximum security was an integral part of MyReserve right from the start. It's no wonder that MyReserve was the first battery to completely fulfill the requirements of the safety guideline for lithium-ion household storage. MyReserve sets new standards:

Physical safety

Each MyReserve module is sealed in a 1.4 cm thick aluminum cast housing.

The electrical battery poles are insulated from each other by ceramic separators, just like a high-voltage line. This reliably prevents short circuits from deposits on the cathode and anode.

To ensure that your MyReserve can be shut off at any time, SOLARWATT relies on autonomous relays. All relays switch independently, each one securing the system. This means that the relays cannot interfere with each other in the event of faults – maximum safety for you.

Data security

Most conventional batteries rely on an Internet connection which means that digital intrusion is always possible. To exclude manipulation by third parties, the internal and external CAN data buses in the MyReserve are physically separated.

Data about device status is the only sort MyReserve transmits externally. The inner physical interfaces protect the remaining data 100 % from unauthorized external access. This ensures that no one can manipulate your battery from the outside.

WHAT CAN YOU POWER WITH YOUR BATTERY?

The capacity of electricity storage batteries is expressed in kilowatt hours (kWh). 1 kWh means that the battery could power a device with an output of 1,000 watts for 1 hour. However, most devices require much less than 1,000 watts. Here are a few examples of how much energy your battery can provide:

2.4 kWh



=



1h

+



13h

7.2 kWh



=



1h

+



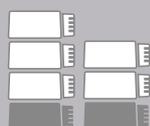
13h

+



4.5h

12 kWh



=



1h

+



13h

+



4.5h

+



1h

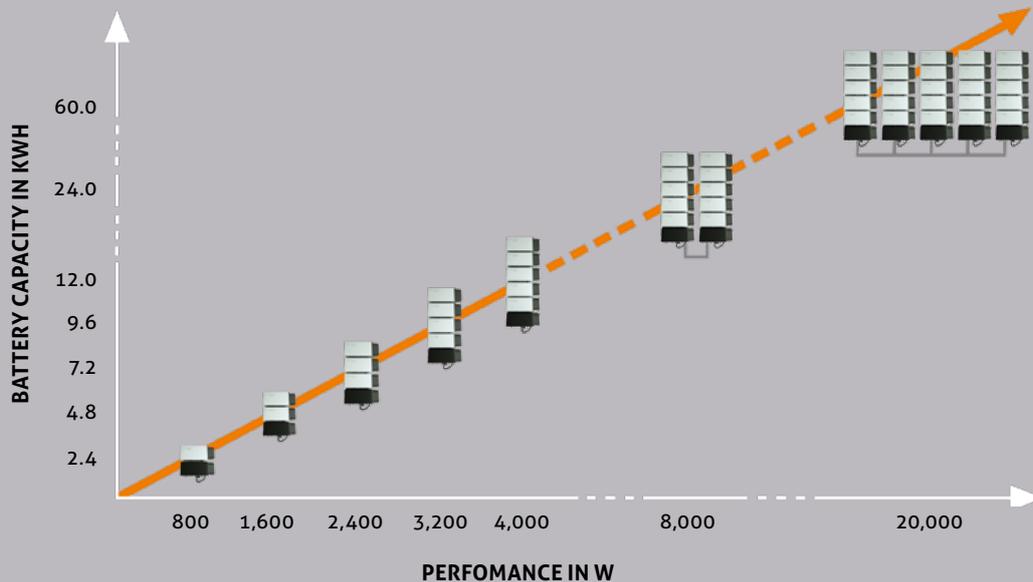
+



1.5h

TWO BUILDING BLOCKS, ENDLESS POSSIBILITIES

Thanks to its complete modularity, MyReserve can always be configured to your exact specifications.



All-round protection with SOLARWATT Warranties and FullCoverage.

WHERE OTHERS PROMISE, SOLARWATT GUARANTEES.

With a SOLARWATT battery you are investing in the future – yours and that of future generations. SOLARWATT offers a performance guarantee for your MyReserve which exceeds the legal requirements by a factor of five.



Guaranteed Performance

We guarantee that your MyReserve battery will last at least 10 years – and still have 80 % or more of its original storage capacity, regardless of charge/discharge cycles. If not, we will repair your MyReserve free of charge or replace the affected module.



SOLARWATT FullCoverage

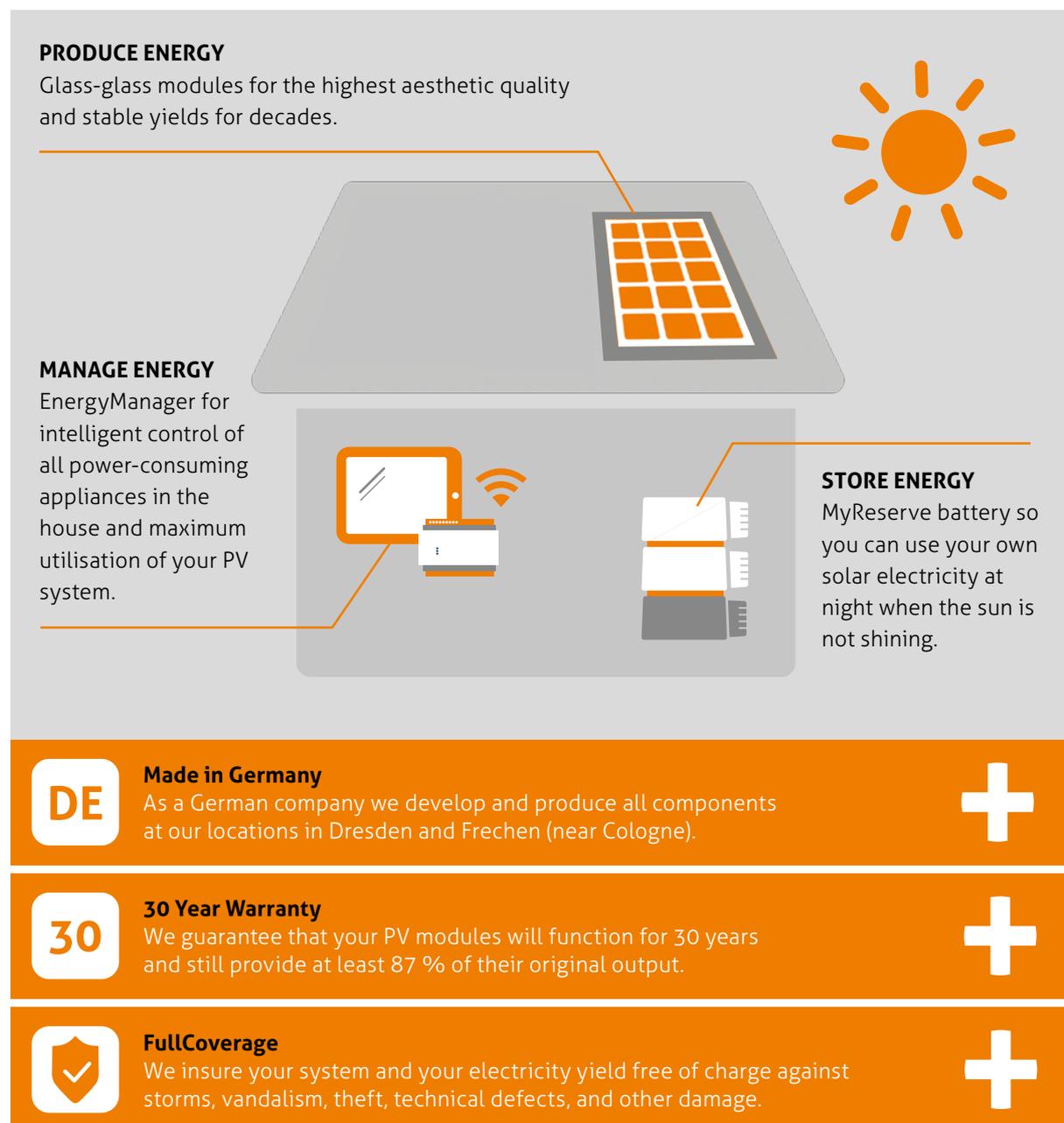
Every MyReserve comes with a free insurance policy – SOLARWATT FullCoverage. Among other things, this insurance covers:

- theft of system components
- damage from extreme weather, flooding, vandalism
- defects due to overvoltage, short circuits, e. t. c...

Detailed warranty and FullCoverage information is available on our homepage or from your expert installer.

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.



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

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MYRESERVE

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HIGHEST EFFICIENCY.
GUARANTEED PERFORMANCE.**

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