#### THE WORLD CHAMPION FROM GERMANY



MyReserve. THE BENCHMARK FOR THE FUTURE OF BATTERY STORAGE.



#### **MYRESERVE** –

### STORAGE SOLUTION THE REVOLUTIONARY BATTERY

even when the sun is not shining. And now it financially you with solar energy from your photovoltaic system Welcome to the future of energy. MyReserve provides

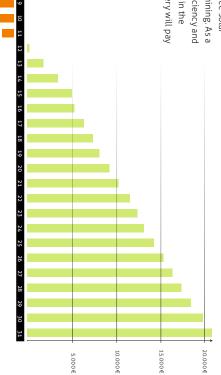
when you don't need it? the free power from your photovoltaic system at times Have you ever considered how great it would be to store

> expensive, too complicated, and therefore unprofitable now pays off when you use your own solar energy. sensational price change everything: For the first time, it people previously found that the technology was too Now it can really pay off for you with SOLARWATT: Many solar energy batteries. State-of-the-art technology and a but now there is MyReserve, the next generation of

#### **ECONOMIC MIRACLE** THE NEW GERMAN

With the MyReserve you receive the most economical battery for single and two-family homes at a sensationally low price.

a unique price, the investment in the result of its extremely high efficiency and for itself in just 11 years. photovoltaic system with battery will pay energy even if the sun is not shining. As a With MyReserve you can use free solar



## Year State funding on top

-5.000

In many countries a funding for battery storage is possible. MyReserve is profitable even without state funding. It is simply a bonus on top.

#### **HIGH PERFORMERS**

pay for itself after just 11 years. MyReserve 500 is optimized MyReserve 500
SOLARWATT's MyReserve 500 offers you the most economical for photovoltaic systems with 10 to 13 panels. voltaic system, the whole installation incl. electricity battery will lithium-ion battery in the world. Combined with a new photo-

- Dimensions (H x W x D): 98.4 x 73.4 x 31 cm
- Usable battery: 4.4 kWh
- Depth of discharge (DoD): 100%
- Battery effiency: 99.2%
- System effiency: 96% at
- best point (93% in full cycle)
- Technology: lithium-ion storage system
- Cluster formation: Power increase by at least
- 1.5 kW per MyReserve connected
- Assembly: space-saving wall mounting
   Safety: certified according to the German 'Safety guidelines
- (Battery module transport test) for li-ion home battery systems' and UN38.3

to maximize your autonomy clusters. Benefit from multiplying the output and capacity be formed for the first time. This means you can connect a several MyReserves into a house installation by forming parallel MyReserve to each PV module string and therefore integrate modules. In addition, the MyReserve 800 enables clusters to it provides higher flexibility as more modules can be connected The MyReserve 800 is ideally suited to systems with 14 to 18 The MyReserve 800 is the extension of the MyReserve 500;

- Optimized for systems with 14 to 18 modules
   Extension: Capacity can be increased to 8.8 kWh
- Cluster formation: Power increase by at least
- 1.5 kW per MyReserve connected









# YOUR DECLARATION OF INDEPENDENCE

tricity, MyReserve only consumes between 5 and 15 is achieved through optimal self consumption. The more free solar energy you use from your photovoltaic When in operating mode, i.e. when providing elecsystem, the less grid power you need from your energy supplier. The numerous technical features of Lowest consumption MyReserve make high degrees of independence possible. Lowest heat losses

its electricity consumption is even less than 5 watts watts and leads the competitors. In standby mode

#### Highest effiency

point and 93 % in full cycle. That's world record. of 99.2 %. System efficiency level is 96 % at best MyReserve offers a superior battery efficiency level

#### Fastest response time

waves, induction hobs, coffee machines. They demand ments that vary strongly, e.g. modern freezer, micropeak current for a few seconds. Many household devices have electricity require-

completely from the battery. Traditional batteries re-Within less than a second, the electricity is provided MyReserve registers the demand for electricity in the spond too slowly so additional mains electricity must home immediately and supplies the stored energy.

> Therefore battery cooling is not required MyReserve does convert virtualy no energy into heat As a result of the extremly high electrical conversion,

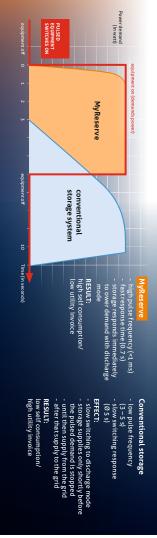
#### **Battery management system**

it ensures the highest security and maximizes the system lifespan its intelligent charging and discharging algorithms toring all the system paramaters all the time. With The MyReserve battery management system is moni

#### consumption. Weather report to optimize self

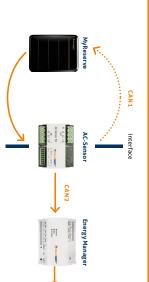
MyReserve is equipped with self-learning software pendently develops an optimal operating strategy to level whilst at the same time minimizing battery aging maximize self consumption and the independence (electricity taken from the battery), MyReserve indeto forecast weather. Using yield and consumption data

## **MYRESERVE REACTS ALMOST 10-TIMES FASTER THAN CONVENTIONAL SYSTEMS**





#### MY RESERVE DATA CONFIGURATION



#### Technical security

commissioning. teries. It also has various security devices that safeguard the operation and security during assembly and fulfills the safety guidelines for lithium-ion home bat-MyReserve is the first storage system that completely

#### 100% hacking protection

tion. Therefore a digital break-in is always possible. Many traditional batteries rely on an Internet connec

externally by digital means. Due to the system intellisecurity gaps are eliminated. gence maintaining complete control of the system, all access to the battery, so that it cannot be reached removed the Internet connection and classical LAN Not so for MyReserve: Solarwatt have consciously

tection to ensure unauthorized data is not transmitted Instead only one-way data communication is possible Internally the physical interface provides 100% pro-

these are physically separated from each other. In order to exclude manipulations by third parties, an internal and an external CAN data bus are used and

#### Relays in high vacuum

quadruple redundancy in the security concept for switches ultra high vacuum relays are used giving prevents the mutual influencing of the relays during and off. The spatial separation of the individual relays would no longer be possible to switch the device on at high voltages that could cause the relay to fail – it switched on and off. The vacuum prevents light arcs at all times and in any operating mode, 4 sequentially In order to ensure that MyReserve can be switched off

#### Ceramic coated separators

ensures that the separators do not melt when overshort-circuits so no fire can start. The ceramic coating heated - excluding chain reactions The ceramic separators in the battery cells prevent

#### **Aluminum block**

could result in a fire, is virtually excluded. security. Penetration of the battery module, which This provides the highest transport and penetration single-part cast aluminum casing that is up to 1.4 cm thick and can only be opened again with special tools The battery modules are sealed in the factory in a



## YOUR COMMAND CENTER

#### The perfect team

#### MyReserve and Energy Manager together ensure that your solar power is profitable.

Energy Manager decides what to do: Household loads switched on – such as such as cooling and charging with a flexible energy requirement can either be energy is produced and not needed immediately, the using as little mains power as possible. If free solar calculated from the feed-in energy but rather from times where there is no sunlight. etc. Or MyReserve can store the excess power for equipment, hot water pumps, air conditioning units, The benefits of a photovoltaic system are no longer

sumption by 10% parency on the power consumed by your devices. This At the same time Energy Manager gives you full transknowledge alone can already reduce your energy con-

### Everything at a glance. In full control.

ted online to the Energy Portal, which can be controlled The Energy Manager – installed in the fuse box – monifrom your PC, tablet, or smart phone. tors all energy flows in the house. The data is transmit-

in the same way as for online banking. Your data is stored on German servers and is encrypted

#### Ready for the future.

Smart Home applications and is Smart Grid ready Energy Manager is therefore already prepared for new apps very easily into the Energy Portal. The Thanks to its flexible interface, you can integrate combination with devices from various manufacturers. The SOLARWATT Energy Manager can already work in

## 100% MADE IN GERMANY

SOLARWATT was founded in 1993, all components have been manufactured in Germany. SOLARWATT is German-made in every aspect. Ever since

modules in 1998 to the first economic solar storage system in 2015. Our past, pioneering developments range from the first ever glass-glass-Cost-effective solutions and technical innovation is our emphasis.

Netherlands, the SOLARWATT group employs more than 250 people With two locations in Germany and subsidiaries in France and the

#### **SOLARWATT INNOVATION**

cost leadership. SOLARWATT to reduce the cost of battery storage systems and assume highly complex K.E.R.S. hybrid technology and its associated innovative Formula 1 team. Experts in battery technology, e-Wolf developed the In 2016, SOLARWATT acquired e-Wolf, an offspring of the Toyota Racing control and battery management systems. This acquisition enables

#### **Premium Strategy**

Our focus is on decentralized residential energy solutions. We produce and more independence from the public grid. German-made premium products, offering optimum purchase conditions

all-inclusive package and reduce consumer's reliance on the public grid. We specialize in complete system solutions to ensure benefit from





#### HIGHEST EFFICIENCY. CERTIFIED SECURITY. GUARANTEED PERFORMANCE.

www.solarwatt.net