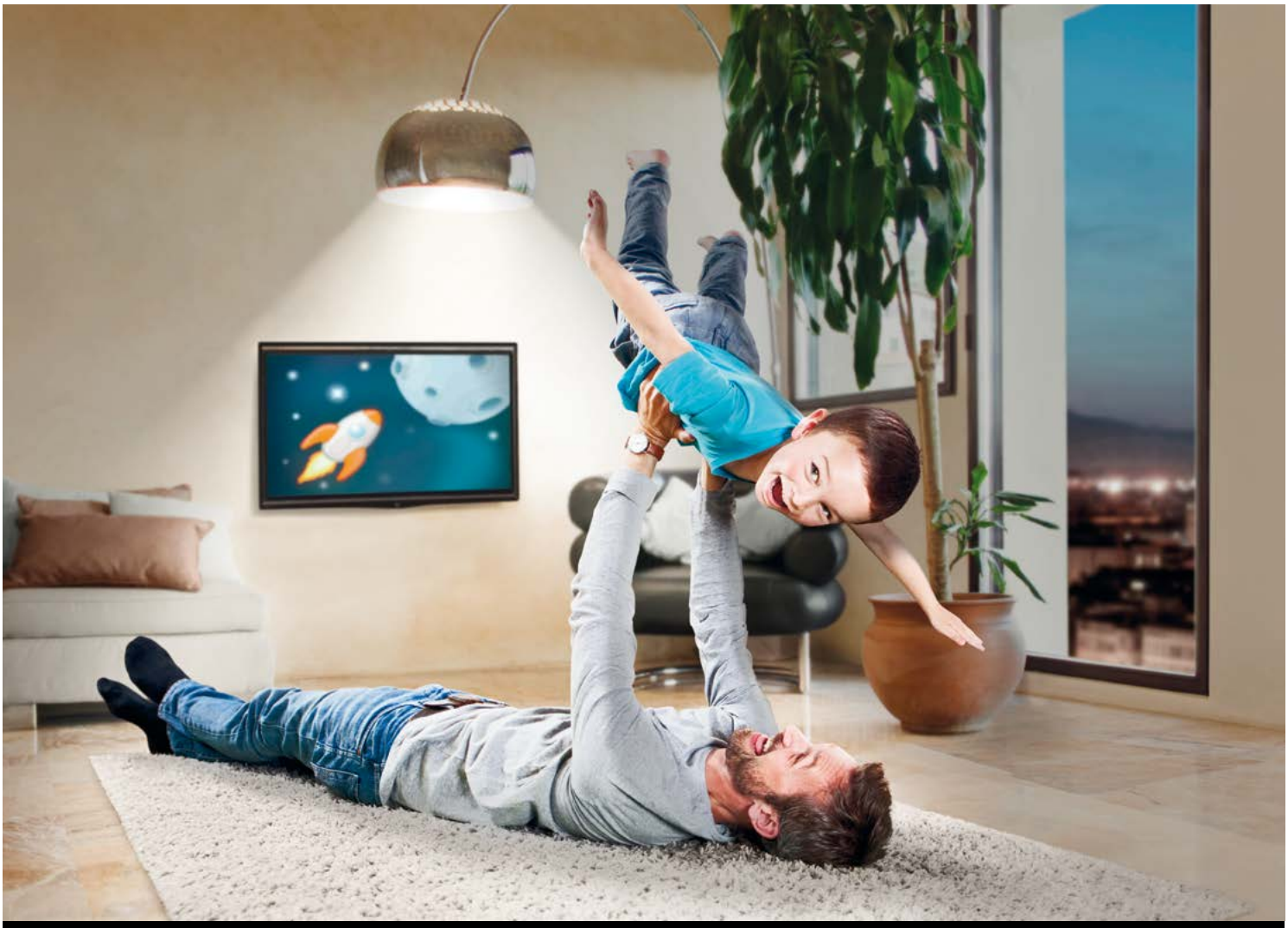
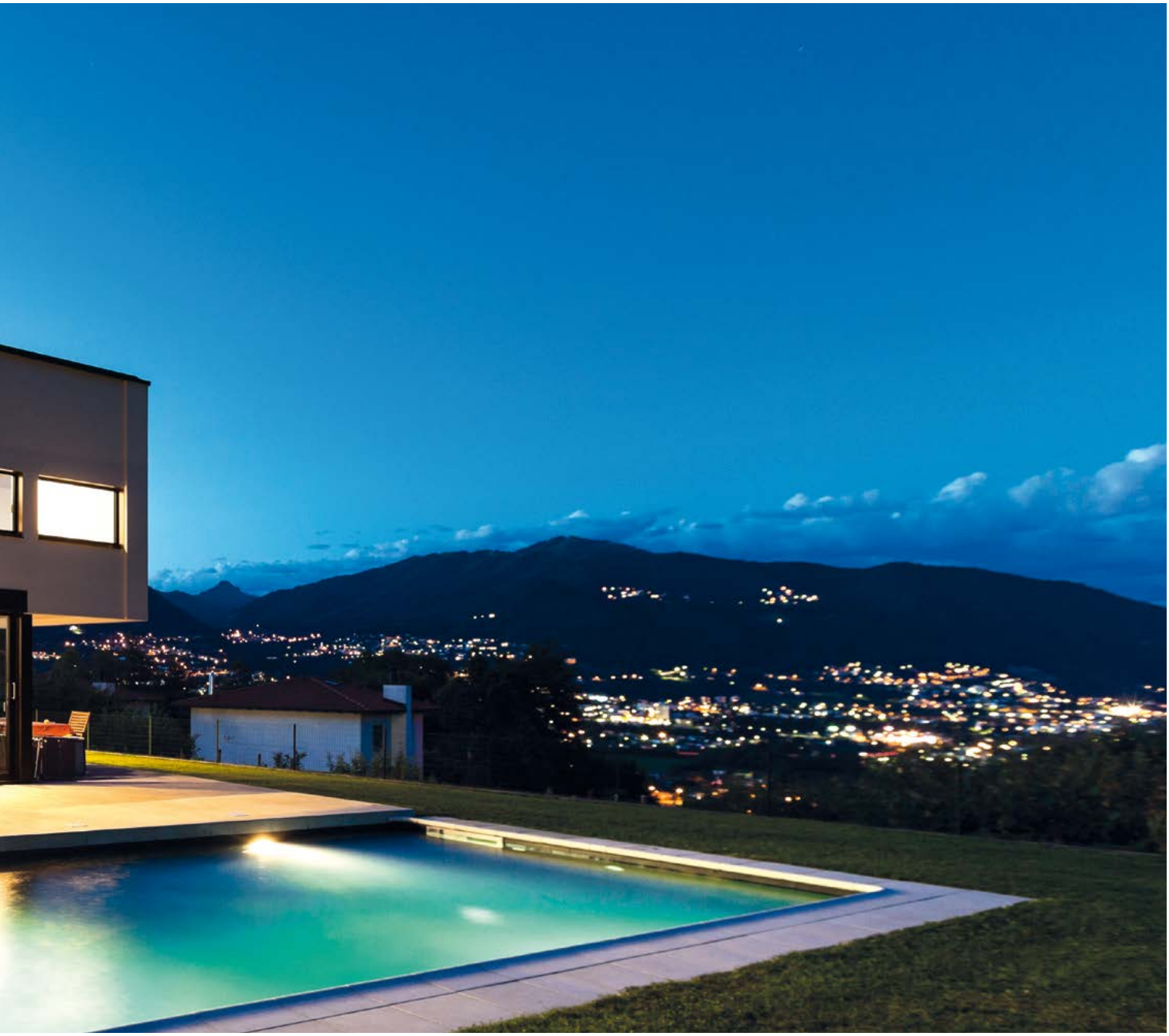


# REACT. Photovoltaic inverter with integrated energy storage from ABB.
# All the energy you need is in your home.

Power and productivity
for a better world™

The sun has set but its energy stays with you.

Enjoy a house full of energy; one that is welcoming and can fully meet the needs of you and your family.



# Energy that never sets

**There is a time during the day, your house is empty and silent, but your PV system is busy converting the sun's energy into electricity and storing it for use later. And then there is a time when your home welcomes you back one by one as you come in from work, school or the office. It offers you all the energy your family needs to: cook, dry, play, phone or surf the web. The energy the house has stored is now being given back to you because this is when you need it.**

Thanks to the REACT system, ABB can offer you an innovative solution for collecting and storing energy and making it available when it's needed, after sunset, during the evening and first thing in the morning. Finally, with REACT the advantages of your photovoltaic system are clear as the sun: efficiency, savings, flexibility.

Making your photovoltaic system more efficient and more practical gives you greater comfort and flexibility in your use of electricity.

# It’s nice to enjoy the energy from your own home, when working, having fun or relaxing.

## These days, energy is truly at the heart of a home.


### REACT is at the heart of your PV energy system

The innovative side of REACT is how it manages the energy your photovoltaic system produces, by storing it inside a high performance battery.

The REACT system also optimizes your energy usage by aligning energy production with the levels of consumption in your home, thanks to the integrated load manager.

### Never without energy

If you experience a black-out of your power grid, you can still continue to supply some devices from REACT’s auxiliary energy output, which feeds off the availability of photovoltaic energy or from electricity stored in the battery.

# High-performance energy. For doing and thinking.

Not only does REACT have storage capability, but it also helps you save. At last you have the opportunity to choose the times that are best for energy usage, even when you are far from home.

### Energy that lasts over time

The high performance of the battery, which can be expanded to accommodate the specific requirements of different types of homes, is combined with an interface (load manager) that enables you to switch on particular household appliances even when you are not at home.

The end result of these two elements (storage and management) is the ability to make the best use of the energy created by your PV system. This avoids consumption peaks by spreading the electricity load in order to keep usage within the capacity of the energy produced.

Thanks to the MyREACT app which you can download onto your smartphone or tablet, you will be able to monitor, while at home or away, how much renewable energy is being produced and manage it in up to four domestic loads.

By increasing self-consumption of renewable energy, you will save more.



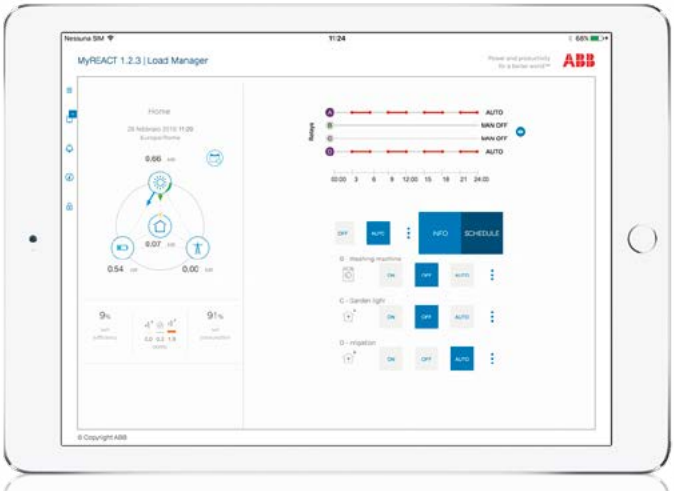
# MyREACT.

### Control your REACT system at home or away

MyREACT enables you to control and monitor your REACT system, helping you to become more aware of your energy consumption, self-consumption and self-sufficiency. You will also be able to keep track of how your energy routines change over time.


### It measures the state of the health of your system

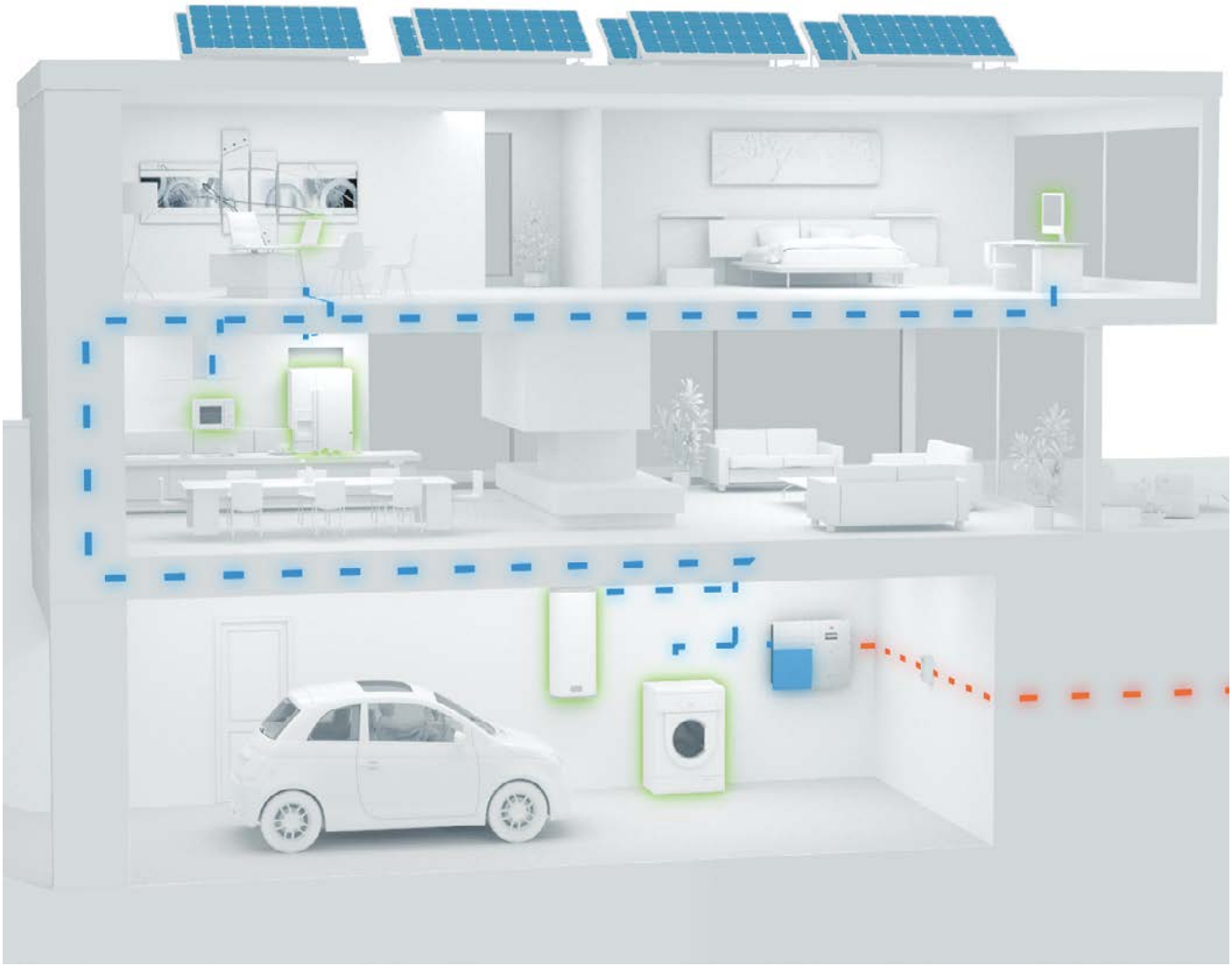
In the event of a system malfunction, MyREACT warns you in real time, enabling you to reduce equipment downtime to a minimum.




### Integrated Load Manager

With MyREACT you will have the ability to switch on some electrical appliances or put them on a timer when photovoltaic production is high.

# In the right place, at home.
## A great energy solution in a truly contained space.

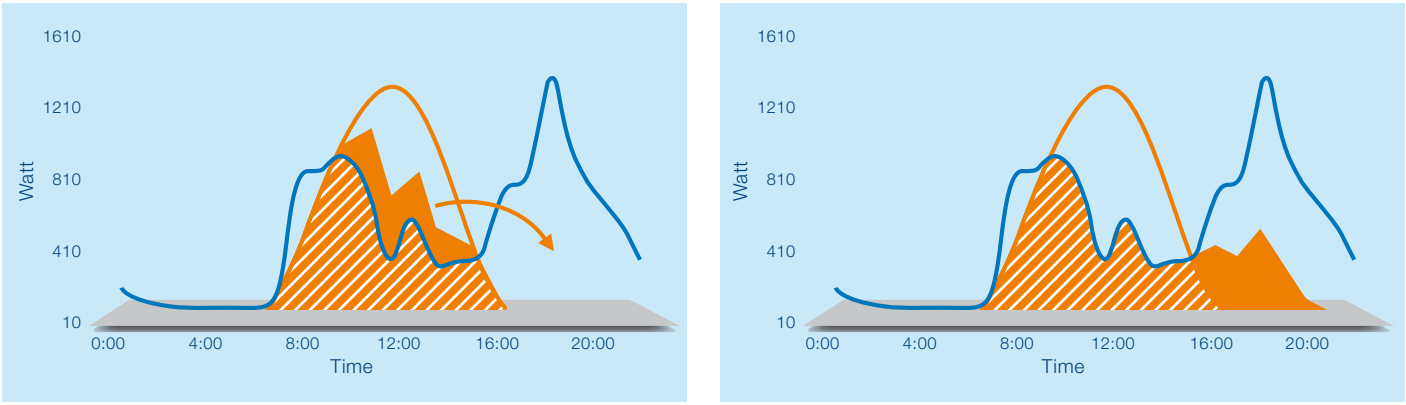


### REACT grows along with your family

The cellar or the garage can be the ideal place for locating your REACT system. It can be mounted on a wall without taking up precious space.

It is compact with minimal intrusion (width 98 cm, height 74 cm and depth 23 cm), and it enables you to manage and optimize the production of your photovoltaic energy according to your real needs and requirements.

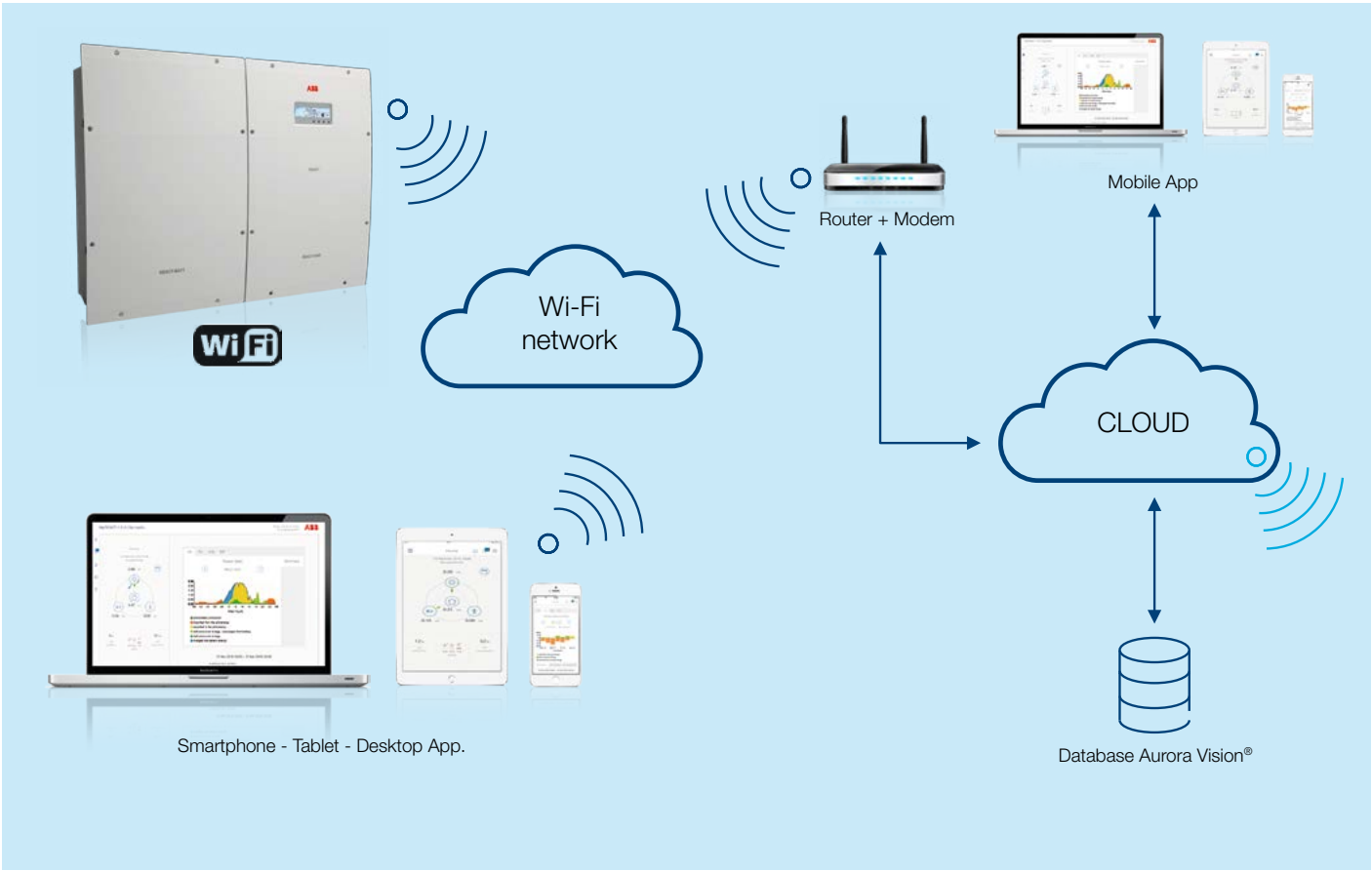
Thanks to the modular nature of REACT, you have the ability to add batteries and easily increase its storage capacity both today and in the future.




A photovoltaic system produces more energy in the middle hours of the day, but by contrast energy usage is greater in the evening hours.

Thanks to REACT, you can store the energy you do not consume during the day and make use of it when you need to: in the evening, for example.

## Block diagram REACT-4.6




## Highlights

- The REACT-4.6-TL (Renewable Energy Accumulator and Conversion Technology) is a PV single-phase grid connected inverter able to store energy in a 2.0kWh useful capacity Li-Ion battery integrated within the same product enclosure, expandable up to 3x
- Double fast MPPT, broad input voltage range, top class efficiency with TL topology, compactness, installation flexibility
- Up to four onboard load management outputs are included as well as an auxiliary AC back-up output for off grid capability in case of a black out
- The product is designed for a long life cycle with a 10 year expected battery life thanks to the Li-Ion technology
- Storage capacity can be further expanded up to three times adding further battery units

# When talking about ideas and inventions, we naturally come across words like "bright idea", "clever", "amazing".

In truth, light and consequently energy, has always been a revolutionary idea for humankind, as is the opportunity to have it available for free at home, produced by the sun, and therefore clean, renewable and sustainable. This is without doubt a pure and beautiful gift that we can leave for future generations.

# Contact us

For more information please contact
your local ABB representative or visit:

**www.abb.com/solarinverters**
**www.abb.com/react**
**www.abb.com**



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