

The Intelligent Energy Ecosystem. Designed Around You.

One system. One control. More from your energy.

From single-family homes to commercial sites: MidTeQ connects generation, storage, heat and mobility into one intelligent energy ecosystem.





ECOSYSTEM

Your energy. Intelligently connected.

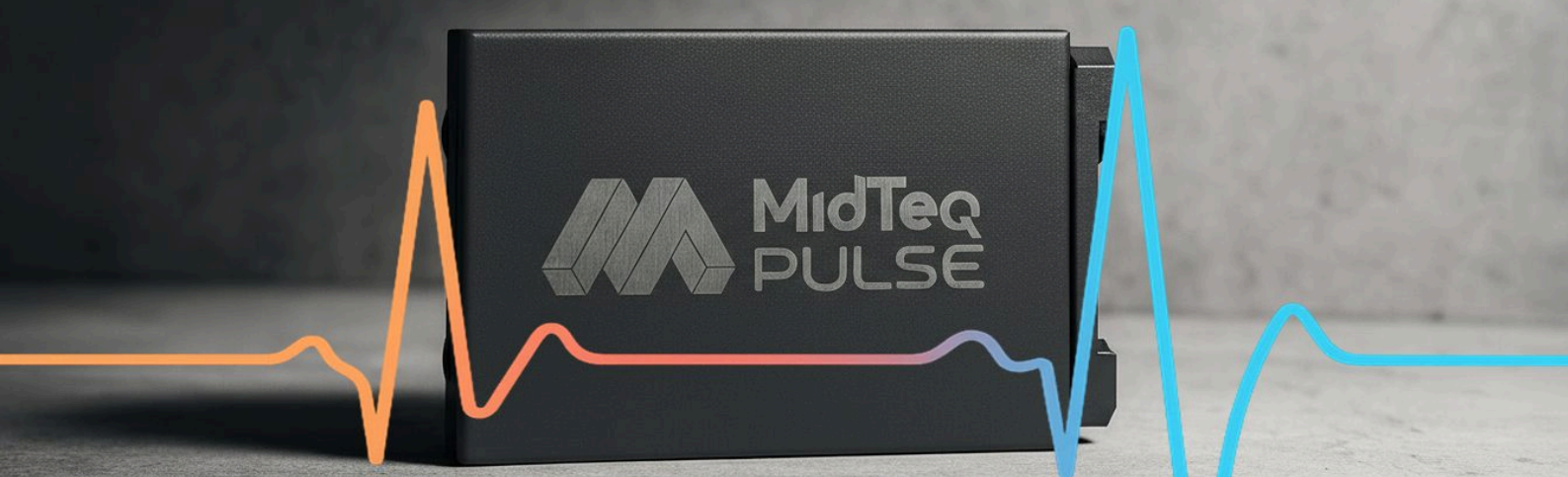
Photovoltaics, battery storage, heat pump, hot water and e-mobility work best when they don't operate separately from one another.

That's exactly what MidTeQ PULSE is for.

PULSE connects the components of your energy system and coordinates them centrally. Generation, storage and consumption no longer work independently of each other, but as one aligned system.

Individual devices become an energy ecosystem that works as a whole.

That's what sets MidTeQ apart: A complete energy ecosystem from a European brand, with personal support, data storage in the EU and a network of certified installers and partners in your region.



INTELLIGENT CONTROL

More from every kilowatt hour.

MidTeQ PULSE energy management system

Your PV system generates energy. PULSE makes sure you use it as intelligently as possible.

Instead of simply feeding surplus solar power into the grid, PULSE can direct it to battery storage, hot water, the heat pump or e-mobility.

At the same time, the system takes into account weather forecasts, your energy demand and – with dynamic tariffs – electricity prices throughout the day.

This way, energy can be stored or used when it makes the most sense.

Through a Virtual Power Plant, PULSE also lets you share energy between multiple connection points in real time.

The result: Higher self-consumption, less unnecessary grid draw and more control over your energy costs.

Automatic, not manual

PULSE optimises energy flows automatically in the background.

Software from Europe

PULSE is developed in the European Union.

Make use of dynamic tariffs

Low-price hours can be used specifically for drawing and storing energy.

Data in Europe

Your energy data is stored within the European Union.

HEAT

Solar energy that keeps you warm.

MidTeq HeatX hot water and heating control

Why feed surplus solar power into the grid when you can use it directly for hot water?

Combined with PULSE, HeatX automatically detects available PV surplus and uses it specifically to heat water. Energy the household doesn't need at that moment can be converted directly into heat.

Instead of heating water only on fixed schedules, HeatX follows the energy that is actually available.

That means: Using more solar energy in your own home and giving less valuable energy away to the grid.

You'll notice it compared with conventional gas water heating, too: Self-generated electricity preheats the water and reduces gas consumption from the first sunny day after installation.





STORAGE

Your energy. Even when the sun isn't shining.

MidTeQ battery storage

Generate by day. Use in the evening.

The modular battery storage makes your solar power available exactly when you need it: In the evening, at night or when demand is higher.

And when your energy needs change, the storage simply grows with you: Additional battery modules can be added later.

Modular from 10 to 75 kWh

Flexibly expandable as your energy demand grows.

Reliable in the cold

The integrated heating supports reliable operation even at low temperatures.

More than 8,000 charge cycles

Designed for a long service life and reliable daily use.

Power when it's needed

Designed for high-load appliances such as heat pumps, cookers or e-mobility.

High-voltage architecture, LFP with dedicated BMS per module · 400 V nominal voltage (350–435 V) · 0.6 C charge/discharge rate · 90 % depth of discharge · IP65 · -20 °C to +55 °C · CAN / RS485 · TÜV Rheinland certified · 10-year warranty



CONVERSION

Power you can rely on.

MidTeQ hybrid inverter

The inverter is the powerful link between PV system, battery storage, home and power grid.

It converts the generated energy efficiently and makes sure it's available where it's needed.

Together with the battery storage, it also forms the basis of a powerful backup power supply. If the public grid fails, switchover takes less than 10 milliseconds.

Fast backup power during outages

Switchover in less than 10 milliseconds – for an uninterrupted supply.

Quiet operation

Below 25 dB – ideal for living spaces, too.

More than 98 % efficiency

High efficiency for minimal conversion losses.

High power reserves

Also designed for demanding appliances and short-term peak loads.



CHARGING

Your car charges when it makes the most sense.

MidTeQ wallbox

E-mobility is especially attractive when your vehicle uses as much self-generated energy as possible.

PULSE matches charging to the energy available in the home. Solar surplus can be used first, and low-price hours can be taken into account.

Your vehicle doesn't just charge. It becomes part of your intelligent energy system.

Up to 22 kW charging power

Three-phase charging for short charging times.

Intelligently controlled

Plan charging times around energy availability and electricity price.

PV-optimised charging

Use available solar surplus specifically for your vehicle.

Ready for the future

Designed to intelligently connect home, energy and mobility.

32 A per phase · Type 2, tethered cable · bidirectional per ISO 15118-20 (variant) · RFID · OCPP 1.6J and 2.0.1 · IP55 / IK10 · wall or pedestal



E-MOBILITY FOR BUSINESS

Fast charging. Even where the grid can't keep up.

MidTeQ PowerHub

Fast-charging infrastructure often fails not because of demand, but because of available grid capacity. Grid expansion can add costs and delay implementation.

The PowerHub combines DC fast charging and 240 kWh of battery storage in one system. Energy is stored and supplied for high charging power when needed – with limited grid capacity or even off-grid.

This makes powerful charging infrastructure more flexible and less dependent on existing grid infrastructure. External PV systems can also be integrated.

Up to 240 kW fast charging

High DC charging power through the intelligent combination of battery storage and available grid power.

Use storage and PV intelligently

Integrate 240 kWh of battery storage and make existing PV energy available for e-mobility via the energy system.

Flexible deployment

Compact all-in-one system for sites where charging infrastructure needs to be set up quickly and flexibly.

Integrated safety

3-level BMS, integrated fire suppression system and smoke and temperature detection.

LFP · 200–1,000 VDC · CCS2, CHAdeMO, GB/T, NACS · grid connection max. 125 kW · ≥ 8,000 cycles · IP55 · –20 °C to +40 °C · OCPP 1.6J, upgradable to 2.0.1 · 5-year product, 10-year battery warranty



ENERGY STORAGE FOR BUSINESS

A secure energy reserve. Right where it's needed.

MidTeQ compact energy storage for businesses

Commercial sites have different energy requirements: High loads, peak demand, fluctuating electricity prices and, increasingly, their own PV generation and charging infrastructure.

The storage provides stored energy exactly when it delivers the greatest economic or operational benefit.

This creates a large energy reserve for the site that can be used intelligently – and the storage becomes an active part of energy management.

Reduce peak loads

Use stored energy specifically when power demand rises.

Secure energy reserve

Depending on system configuration, create additional security of supply.

Increase cost efficiency

Shift energy intelligently based on generation, consumption and electricity price.

Built for outdoor use

Robust construction and integrated thermal management.

261.2 kWh · 125 kW / 180 A · 832 V (728–936 V) · 0.5 P · liquid cooling · 98.2 % converter efficiency · up to 8,500 cycles · IP54 · < 75 dB · CAN / Ethernet / RS485



LARGE-SCALE STORAGE

Scalable container solution from 1 MWh.

MidTeQ container battery storage

For industry and large energy projects, a conventional battery storage system isn't enough. Capacity, power, safety and reliable integration into existing infrastructure are what count here.

The container combines battery system, power electronics, cooling, fire protection and control in one preconfigured complete solution.

You can trade surplus or stored energy on the spot market via our intelligent system.

This reduces complexity in planning and installation and creates a scalable basis for demanding commercial and industrial applications.

High energy capacity

Scalable storage solutions for large energy demands.

Integrated complete system

Battery, cooling, fire protection and control matched to each other.

For demanding applications

Designed for industry, commerce and energy infrastructure.



ABOUT US

European energy. Intelligently designed.

MidTeQ is a brand of Midcosta, a European group of companies with locations in Germany and Slovakia.

The brand combines photovoltaics, battery storage, intelligent energy management, heat and e-mobility into one integrated energy ecosystem.

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CONNECTED — INTELLIGENT — PERSONAL