



Customized energy solutions

New developments for special requirements often stand in need of custom-made solutions by means of individually manufactured battery systems. Next to standardized high-performance modules, aentron also provides customer-specific battery modules, from concept, design up to the realization.

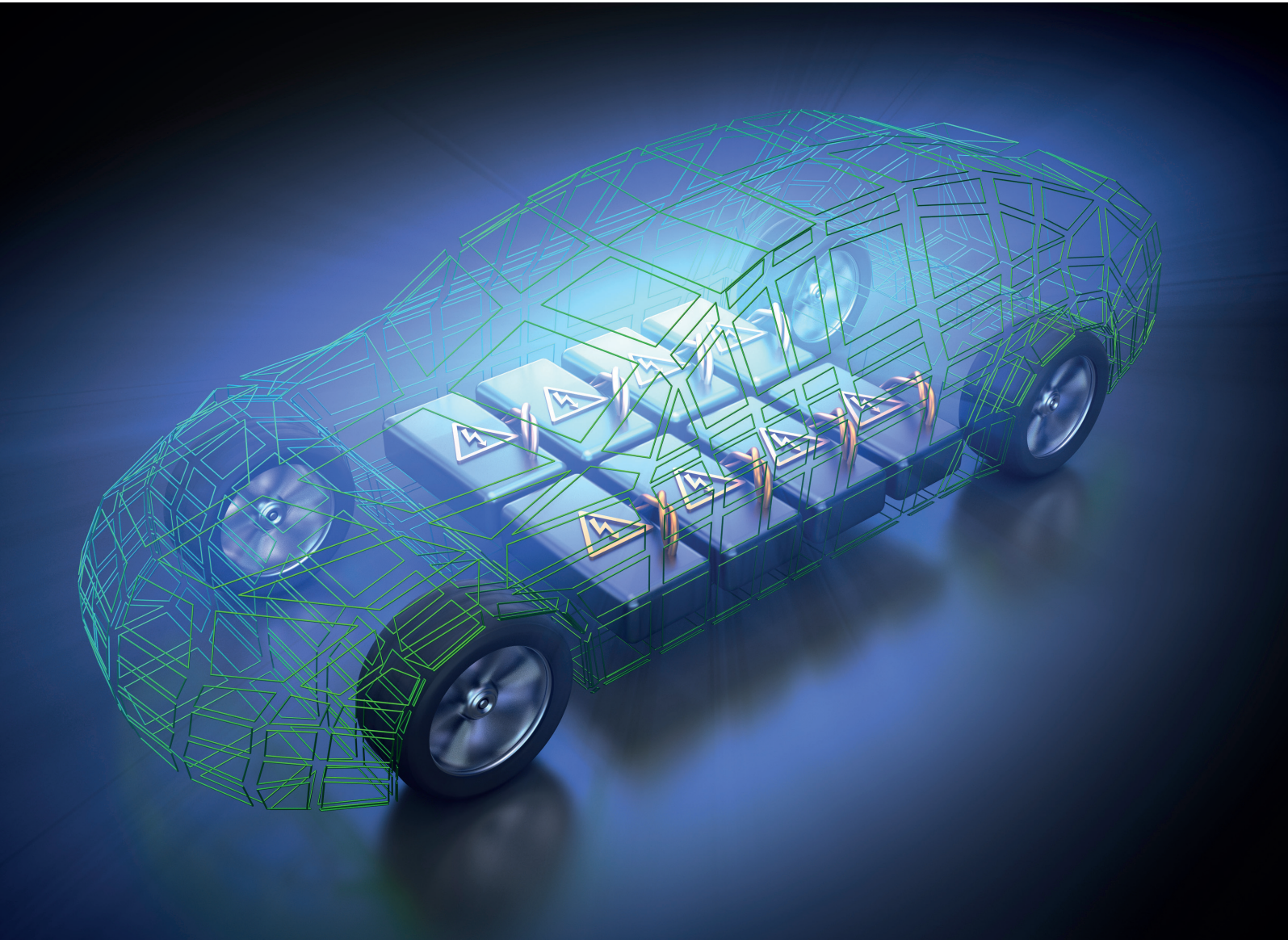
With special manufacturing and prototyping, aentron is able to fulfil the individual requirements, such as form, capacity and power. The battery management system can be customized to fit into the architectural solutions of the customer and therefore provide a quick and simple integration.



aentron ENERGY SOLUTIONS

aentron specialises in the development and production of energy storage devices for maritime, industrial, e-mobility and building power storage applications. aentron power solutions are state-of-the-art, scalable, robust and safe lithium-ion battery-systems – Made in Germany.

For further information please contact: info@aentron.com.



E-Mobility
Energy Solutions

Scalable energy solutions – safe and reliable



E-Mobility Applications

Reliable energy supply:
Robust lithium-ion
batteries for mobile
applications













E-Mobility: modular and scalable – for every need

E-Mobility is no longer only the electrical propulsion of vehicles such as buses, communal vehicles made for transportation, special vehicles, motorcycles or scooters: A wide spectrum of electrically powered vehicles, fully electric, Hybrids or Mild-Hybrid solutions are entering our everyday lives more and more. Besides the propulsion of vehicles, the electric powered systems are increasingly being applied cooling systems of trucks in cities and emergency vehicles for on-board for medical devices. As well as expedition vehicles or motorhomes. Caused by a diverse range of requirements, E-mobility has one common goal: To create and ensure long-term sustainable mobility-solutions.

In this case, batteries play an important role as energy-storages. With its “Made in Germany” lithium-ion batteries aentron is implementing a versatile industry standard. The certified and tested quality of the aentron batteries ensures the necessary safety. The local battery-management-system provides an easy and quick integration in existing and new solutions. By reason of a local development department, aentron is able to create custom-made propulsion- and or internal power supply system, applicable in prototypes or in pilot series.

E-Mobility application scenarios

LIGHT ELECTRIC VEHICLES Drive 1 - 5 kWh 48 Vdc	MOBILE CONSTRUCTION EQUIPMENT/AGRICULTURAL MACHINERY Drive 2 - 10 kWh 48 Vdc	AUTOMOTIVE/ PROTOTYPES Drive 10 - 50 kWh 200 - 400 Vdc	EMERGENCY VEHICLES/ TRANSPORTERS Board Net 2 - 10 kWh 24/48 Vdc	CUSTOMIZED VEHICLES/ EXPEDITION VEHICLES Board Net 10 - 30 kWh 48 Vdc
				
				

Innovative battery technology

- Dust and water resistant: IP 66
- Robust metal housing
- Fast charging capable
- Low and high temperature operation: -20°C to +60°C
- 360° mechanical integration
- Modular and scalable configuration
- Recycle- and reusable
- Safety: Integrated BMS
- Plug & play: Power at the touch of a button
- Made in germany



Scalable batteries for customized energy solutions

aentron lithium-ion energy storage systems enable you to create modular and scalable battery solutions. We provide operating voltages from 24, 48 Vdc up to 900 Vdc with capacities from 1 kWh to 1 MWh. Due to the aentron battery management system, all lithium-ion energy products can be combined with each

other, used as standalone or in conjunction with products from other manufacturers or customer solutions. aentron’s certified and safe energy storage systems provide the highest level of flexibility for individual energy solutions.

HV Energy System

1 - 900 Vdc



10 kWh Modul

R-Type



2 kWh Modul

M-Type Imax
R-Type Imax
F-Type



1 kWh Modul

M-Type

