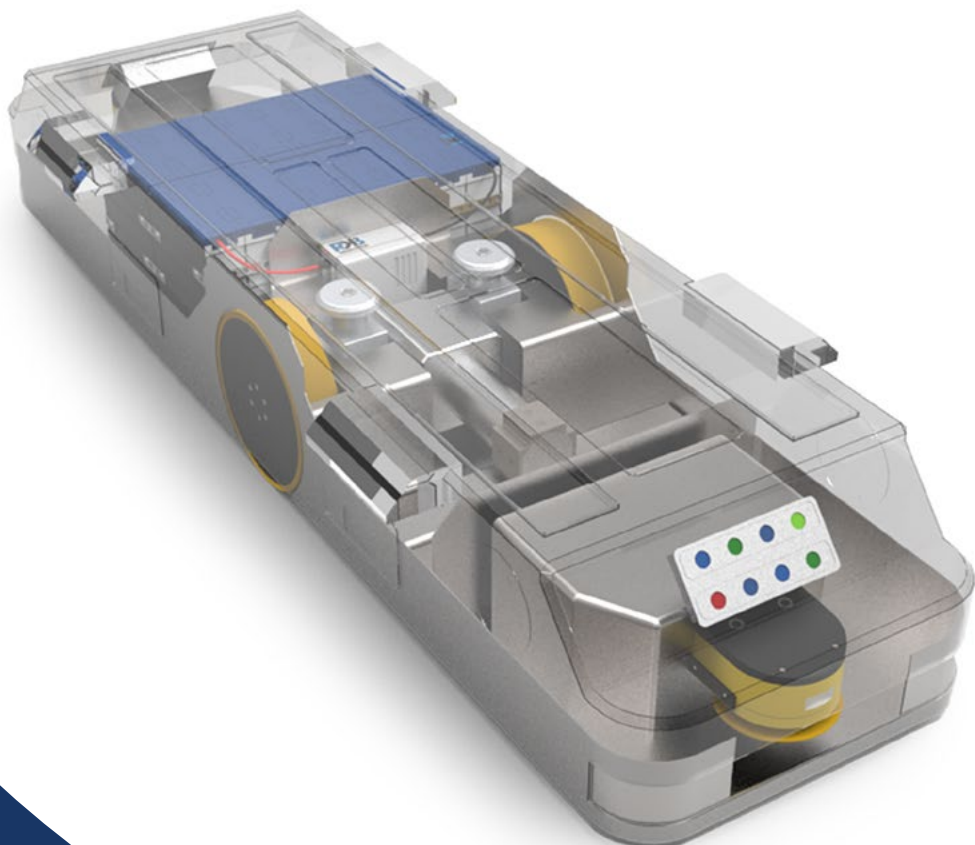




Lithium-based battery solutions –
the alternative to the traditional lead acid battery



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A modular Lithium-Ion energy system as an innovative solution to power economic, low-maintenance and emission-free electronic vehicles such as:

- ▶ Automated Guided Vehicles (AGV)
- ▶ Cleaning machines
- ▶ Mobile workstations
- ▶ Energy storage for solar power

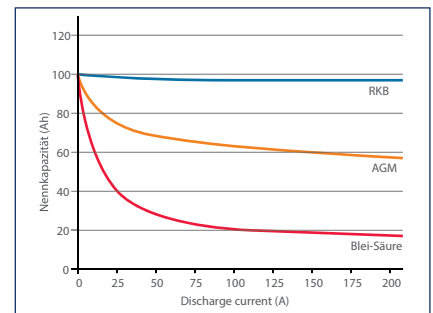
Significant cost reduction and benefits by:

- ▶ Optimized idle time
- ▶ Increased productivity
- ▶ Low self-discharge
- ▶ High energy density allows small designs
- ▶ High current load capacity
- ▶ Large operating temperature range
- ▶ Long cycle life
- ▶ Low weight



Advantages of the modular system

- ▶ Flexibly adjustable in relation to current and capacity (parallel or serial connections)
- ▶ Individually adaptable depending on the application
- ▶ CAN and CAN-open communication is possible
- ▶ Includable in existing housings
- ▶ Integration without modification to the vehicle (Plug`n Play)
- ▶ Required counterbalance existent
- ▶ Unchanged vehicle functionality in terms of stability and handling



Prototype development

Development

As an "All-In-One" service provider we gladly take care of the technical realization and development, prototypes as well as serial production of your power supplies. You benefit from years of experience in intelligent battery systems assembly as well as our consistent business relations with well-known battery manufacturers.

Automated Guided Vehicles

We develop customized solutions for Automated Guided Vehicles with high performance battery systems. Use the new powerful and light Lithium technology to optimize the idle time of your systems, up to 5-times faster charging and double the endurance in comparison to average lead batteries. Your new development benefits from the high performance and light weight Lithium technology

Charging technology

We offer a variety of chargers to match our intelligent battery systems. They generally feature a wide-range input (110–240VAC) allowing worldwide use of the chargers. Depending on the power range our chargers have a plastic or aluminum protection housing. The charging process is microprocessor controlled according to the required charging method (e.g. CC/CV for Li-Ion).

UN-Transport Test

Each Lithium-Ion battery pack requires to pass a UN-Transport Test according to chapter 38.3 of the Manual of Tests and Criteria Section III.

As an additional service we offer our customers to take care of the UN-Transport Test.

