

AKASOL by BorgWarner

Charging Forward to Accelerate the World's Transition to E-mobility

The battery systems of BorgWarner's Akasol brand have been providing energy for multiple electrified commercial and industrial vehicles for numerous years.

The modular approach does not only offer remarkable flexibility, scalability and safety, but also very high economic efficiency.

With very high energy densities on the system level and in our view the most compact liquid cooling, AKASOL battery systems have very low space requirements and emit only little heat. These are the ideal preconditions for long battery life with a high power output for safe, reliable and durable operation.

Thanks to the modular design and free scalability of the AKASystem, we can tailor solutions to meet our customers' needs for bus, commercial, industrial, rail and marine applications.

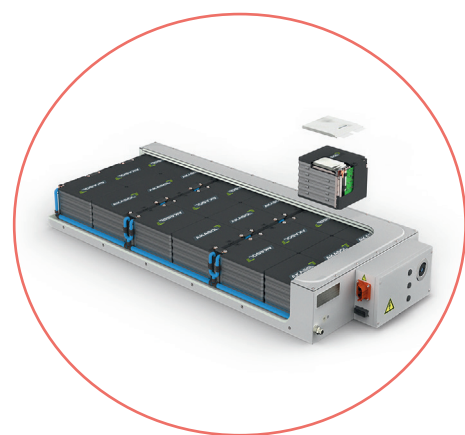
AKASOL has developed high-performance lithium-ion batteries to serve specific applications, adjusting characteristics such as cell type, cycle life and cost per kWh.

AKASystem AKM POC: High-End Technology for Heavy-Duty Performance

Hybrid and electric vehicles benefit from a liquid-cooled and freely scalable system that not only fulfils the highest safety standards, but also currently belongs to one of the most powerful battery solutions in the world. Robust, maintenance-free and fast-charging, the AKASystem AKM is ideal for use in commercial hybrid and electric vehicles with very high requirements when it comes to life cycle, performance and high system voltage.

From Cell to System: Akasol's Test and Validation Centre

With the state-of-the-art test and validation centre at our Darmstadt location, we create optimal conditions for all new and further developments in the field of high-performance lithium-ion battery systems. From endurance tests, high and low-temperature tests in climatic chambers and tests of electromagnetic compatibility



in the EMC chamber, to leakage and corrosion tests, and realistic functional, performance and aging tests: we make sure that our products meet all necessary standards to ensure maximum safety.

Last year, we expanded test stands, technologies and the necessary expertise to simulate a wide variety of environmental influences in our facility, where we conduct tests across all phases of development. For this purpose, we have state-of-the-art system test rooms, a continuous-running room for long-term tests, workshops with diagnostics areas for cells, modules and systems, and an electronics laboratory. With this broad portfolio of testing facilities, our test and validation centre covers nearly all major tests for our products, from the cell and module levels through to the completed battery system.

The Ultra High Power Solution for Infinite Cycles and Maximum C-Rates.



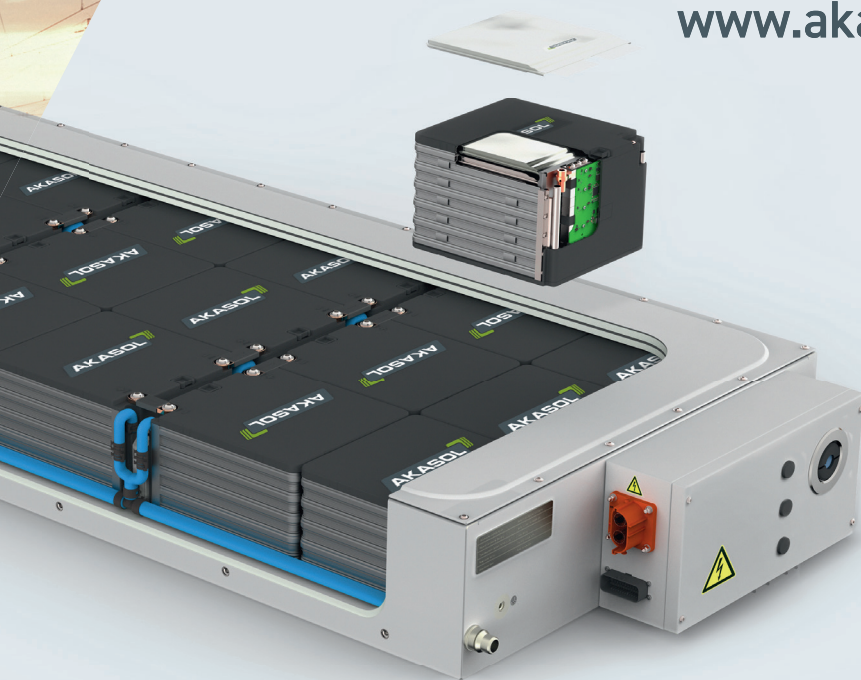
THE E IN MOBILITY



AKASYSTEM 18 AKM 46 POC

- > Ultra High Power Technology
- > Liquid Cooling
- > Certified & Validated
- > Safe & Reliable
- > Freely Scalable
- > Very Long Cycle Life

www.akasol.com



by  **BorgWarner**