

Press release

Stuttgart, October 15, 2025

MAHLE starts to cool stationary battery storage systems

- MAHLE enters new business segment with thermal management solutions
- First series order for MAHLE cooling module
- Successful transfer of proven automotive expertise to non-automotive business applications
- MAHLE to start of production in 2026

The automotive supplier MAHLE is entering the market of stationary battery storage systems with a first series order for a cooling module. These storage solutions are used, for example, in containers for the provision and stabilization of power grids as well as for the temporary storage of renewable energies such as wind and solar power. This is a market that will continue to grow in importance as the demand for energy increases, for example for data centers. The customer is an international commercial vehicles and drivetrain manufacturer that builds its own battery storage systems and, for this order, trusts the proven expertise of MAHLE. The technology group is drawing on its experience in the development and production of cooling modules such as for electrified buses. The newly developed cooling module will go into series production in 2026.

“We can easily transfer the knowledge of cooling modules we have gathered in the transportation sector to stationary battery storage system in containers,” said Christian Kuechlin, Vice President MAHLE Industrial Thermal Systems. “Since the space in the container is mainly to be used for battery stacks, MAHLE develops space saving, compact and efficient cooling solutions in line with customer requirements.”

In the past, stationary battery storage systems were cooled by simple air conditioning systems, i.e. with air. Since the use of high-performance lithium-ion batteries increases the energy density in steady-state battery storage systems and therefore generates more waste heat, a significantly higher cooling capacity is required. The MAHLE module supplies up to 42 kilowatts (kW), that is required in this case, with liquid cooling.

“Our cooling module enables battery operation in the optimal temperature range of 20 to 30°C, which ensures a long service life and high durability for the energy storage system, as well as stable load management,” said Kuechlin. With MAHLE’s broad component and system competency this module achieves market leading compactness and scalability.

The technology group is increasingly developing new business areas beyond the automotive sector in order to establish a more diversified positioning. In the field of industrial thermal management, MAHLE is already developing modules for liquid-cooled cables in fast-charging stations for electric vehicles. High-performance computing and data centers as well as manufacturers of heat pumps or photovoltaic systems can also benefit from thermal management technologies.

Help for editors: This press release and the accompanying photo material can be found at <https://newsroom.mahle.com/press/en/>.

Image copyright: MAHLE GmbH



MAHLE is drawing on its in-house expertise to develop cooling modules for stationary battery storage systems



MAHLE has also developed and launched a modular and scalable cooling module for fast-charging stations

Contact persons for MAHLE communications:

Manuela Hoehne

Director Communications and Public Relations

Phone: +49 173 3180 217

E-mail: manuela.hoehne@mahle.com

Benjamin Haas

Spokesperson

Tel.: +49 173 3197151

E-Mail: benjamin.haas@mahle.com

About MAHLE

MAHLE is a leading international development partner and supplier to the automotive industry with customers in both passenger car and commercial vehicle sectors. Founded in 1920, the technology group is working on the climate-neutral mobility of tomorrow, with a focus on the strategic areas of e-mobility and thermal management as well as further technology fields to reduce CO2 emissions, such as fuel cells or highly efficient, clean combustion engines that also run on synthetic fuels or hydrogen. Today, one in every two vehicles globally is equipped with MAHLE components.

MAHLE generated sales of €11.7 billion in 2024. The company has almost 68,000 employees at 135 production locations and 11 technology centers in 28 countries. (Last revised: 12/31/2024)

#weshapefuturemobility