

The Smarter E Europe 2026: DEHN presents protection concepts for tomorrow's DC world

Geopolitical tensions, growing demands for energy security, and the accelerated global expansion of renewable energy are reshaping the energy sector as never before. The transition to a resilient, decentralised and largely electrified power supply is inevitable. From June 23 to 25, at The smarter E Europe 2026 in Munich, DEHN will be demonstrating how to safely navigate this development with a 360° approach to comprehensive lightning and surge protection solutions for applications increasingly characterised by direct current.

The energy transition is leading to a profound restructuring of the generation, storage, and use of electrical energy. Photovoltaic systems, battery storage systems, charging infrastructure for electric mobility and smart grids are becoming increasingly important. These applications share a common technological trend with direct current (DC) increasingly taking centre stage. Due to higher efficiency, lower conversion losses, and direct integration with renewable energy sources, DC technology is considered key to the success of the energy transition.

However, the increased use of DC systems is also leading to stricter electrical safety requirements. Power surges caused by lightning strikes, switching operations, or grid disturbances can damage equipment, cause outages, or, in extreme cases, lead to fires. In addition, direct current has the special characteristic that arcs are more difficult to quench than in alternating current systems. Protection concepts should therefore be designed to accommodate these conditions from the outset.

Press release



DEHN meets these requirements with its patented ACI (Advanced Circuit Interruption) technology, capable of interrupting DC arc faults using an integrated switch/spark gap combination. As a member of the Open Direct Current Alliance (ODCA), the company is positioning itself at The smarter E Europe as a technology partner for safe DC infrastructures. The focus of the trade fair participation is on protection solutions for PV applications in both residential and industrial settings, as well as for free field systems, battery storage systems and smart power grids. A technological highlight in the field of e-mobility infrastructure is the DEHNguard M DC ACI 1250 FM, a modular Type 2 surge arrester designed specifically for high-power charging (HPC) and fast-charging infrastructure up to 1250 V.

At DEHN's 360° world in Hall A3, booth 120, alongside new products and customised protection solutions, the focus is on personal interaction, consultation, and dialogue on technical challenges, regulatory frameworks, and the issue of how to implement the energy transition safely and sustainably.

[For more information, please visit the landing page for our trade fair participation.](#)



Technology partner for secure DC infrastructures: DEHN at The smarter E Europe 2026

Image: DEHN SE



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About DEHN SE

DEHN is a leading, international family-owned electrical engineering company based in Neumarkt, Germany. With its comprehensive portfolio, DEHN addresses the megatrends of our time - from e-mobility and renewables to the protection of critical infrastructure. The company offers solutions and services for lightning and surge protection as well as safety equipment – fields in which, with more than 900 patents and utility models, DEHN is a leading innovator. The company's products protect people and buildings, systems and telecommunications technology, process industry, as well as photovoltaic systems and wind turbines.

With more than 2,500 employees worldwide, DEHN achieved revenue of around 465 million euros in the fiscal year 2024/2025. Alongside more than 115 years of experience, this constant growth is based on the highest quality standards and a consistent orientation towards customers and markets worldwide.