

MERSEN AT PCIM 2023

At PCIM Europe from May 9 - 11 in Nuremberg, Mersen will present its innovative solutions for electrical energy storage, electric vehicles and energy conversion.

SAINT BONNET DE MURE, APRIL XX, 2023 - Mersen (Euronext FR0000039620 – MRN)

In addition to high-speed fuses, the product highlights at the Mersen booth will also include cooling solutions, high performance capacitors, ultra-low inductance laminated bus bar and SiC power stacks and technologies for energy storage and transmission. In particular, Mersen will highlight an optimal overcurrent protection solution for electrical energy storage systems thanks to the brand new aBAT and gBAT lineups, which have been specially developed for systems ranging from 1000 VDC to 1500 VDC.

Short-circuit and overcurrent protection of electrical energy storage systems

Fuses of the aBAT series for applications up to 1500 VDC protect battery racks and battery arrays against damage caused by overload current. The fuses can withstand high alternating load cycles and low power losses, which improves the reliability and efficiency of the system. Especially noteworthy is the aBat15A fuse, which can suppress fault currents up to 3 times the rated current. The aBAT15C and D fuses, on the other hand, are among the most advanced fuses in their category: They provide protection against large short-circuits, such as those that can occur in electrical energy storage systems, for example.

For optimal protection throughout the entire range, Mersen offers the gBAT fuse series. These fuses protect conductors if the DC/DC converters are not in the vicinity of the EES and the battery systems. gBAT fuses are designed not only for small overload currents, but also for DC fault currents up to 150 kA. They are available in various ampacities and 1000 VDC or 1500 VDC voltage ratings.

Batteries protection in electric vehicles

In Nuremberg, Mersen will present two bleeding-edge technologies for battery system in electric vehicles. The InBat fuse has been specifically developed to be integrated inside the battery modules to protect against short circuits caused by structural deformation of batteries. It meets UN38.3 standard requirements. InBat fuse enables protection of all types of lithium-ion battery cells: cylindrical, prismatic and pouch cells.

Another truly versatile solution is the InfiniCell™: This extremely thin single-layer laminated bus bar with inserted contacts for battery groups not only connects battery cells in an extremely space-saving design. It also monitors their temperature and voltage, prevents wiring errors, and offers protection against impacts and vibrations.

SiC Power stacks evaluation kits and custom designs

At PCIM 2023, Mersen will also present a selection of power stacks with enhanced power density (kW/liter) aiming at minimizing conversion losses (Efficiency %), reducing cost (\$/kW) and shrinking size and weight of the overall system. Mersen offers both, standard power stack evaluation kits and custom designs. We propose a high degree of customization including circuit topology (3-level, NPC, bi-directional, DC-DC boost / buck, back-to-back...), semiconductor technology (SiC, GaN, Silicon...), power modules type

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(single 3-phase, H-bridge, single-leg, single switch...) and package. We can study any request for bespoke specifications including customization on dimensions, footprint, geometry, cooling type (air, liquid, heat-pipe...), power range, current rating, switching frequency Fsw, voltage (Modules 1.7kV, 3.3kV or more), AC filtering, etc...

Live presentation on electric vehicles

In addition to numerous innovative products, visitors to the Mersen booth can also look forward to an exciting presentation on Electric Vehicles / Power Stacks on May 9 from 2:30 to 2:45 PM. In addition, Global Business Development Director EV Pierric Gueguen will present the latest developments from Mersen for use in electric vehicles: on May 10, 2023 at 11:45 AM in Hall 6, Booth 220.

For more information, visit Mersen from May 9 - 11, 2023 at PCIM in Nuremberg in Hall 9, Booth 433.

ABOUT MERSEN

Mersen is a global expert for electrical power and advanced materials for high-tech industries. With more than 135 years of experience, the company is represented in over 50 industrial locations and 18 R&D centers in 35 countries.

Mersen Electrical Power offers a broad product portfolio in the area of electrical protection and control, in addition to solutions for power management applications. For the development and delivery of custom tailored solutions and key products for various key markets such as trade, industry, renewable energies, power electronics and eMobility, the teams at Mersen Electrical Power work together with customers around the world. Mersen's mission is to make customer applications safer and more reliable. For more information please visit ep.mersen.com.

Mersen works in close cooperation with the customer to integrate our products for electrical power in the customer's application, to make it safer and more reliable.

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Caption



Mersen-PCIM.jpg: At PCIM Europe 2023 in Nuremberg, the Mersen team will present the latest energy storage technologies for electric vehicles

Photo: Mersen

Meta title

Mersen at PCIM 2023

Meta description

Mersen presents latest technologies for electric vehicles, energy storage and energy transmission.

Keywords

Mersen, energy storage, energy transmission, electric vehicles, high-performance fuses, film capacitors, electrolytic capacitors, bus bars, power stacks, heat sinks, PCIM Europe 2023

Deep links

<https://ep-fr.mersen.com/en/products/engineering/power-stack-design-optimization-evaluation-kits?level1>

<https://ep-fr.mersen.com/en/products/engineering/infini-cell-battery-assembly-solutions?level1>

<https://ep-fr.mersen.com/en/products/engineering/new-solutions-ees>

<https://ep-fr.mersen.com/en/products/series/nh-fuse-links-gbat-1000v-1500v-dc>

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