



POWER MANAGEMENT

## E-MOBILITY SOLUTIONS





## MERSEN, A STRATEGIC COMPONENT SUPPLIER FOR POWER MANAGEMENT IN ELECTRIC VEHICLES

Introducing Mersen's innovative solutions for the electric vehicle market - high voltage fuses, busbars, cooling, and capacitors solutions. As the world moves towards a sustainable future, electric vehicles are emerging as a viable and promising mode of transportation, Mersen is committed to providing reliable, high-performance products to meet the evolving needs of this growing market. With the electric vehicle market evolving at a rapid pace, we are focused on delivering advanced solutions that cater to the latest trends and innovations. Our products are specifically designed to address the emergence of 800-1000V electric vehicle platforms with SiC technology, the need for increased power and greater efficiency, faster charging times, and new battery technologies.

### High-voltage overcurrent protection

High voltage overcurrent protection devices play a critical role in protecting electric vehicles from dangerous overloads and short circuits. They are engineered to ensure durability and longevity even in the harshest environments.

### Bus bar solutions for power distribution and battery cell interconnection

Mersen bus bar technologies meet e-mobility requirements, from interconnection of the cells and monitoring in the battery, to power distribution and interconnections. The optimized custom thin design offers light weight, space saving and ease the installation on the mounting line.

### Liquid cooled heat sinks for thermal management

Custom designed robust, reliable and compact cold plates are a must for cooling batteries as well as inverters in electric vehicles.

Mersen offers a broad and comprehensive line of products to bring safety and reliability for electrical power. We bring our expertise in fuses, surge protection, capacitors, cooling solutions and bus bars designed to meet your application challenges and to make them safe, reliable and profitable.

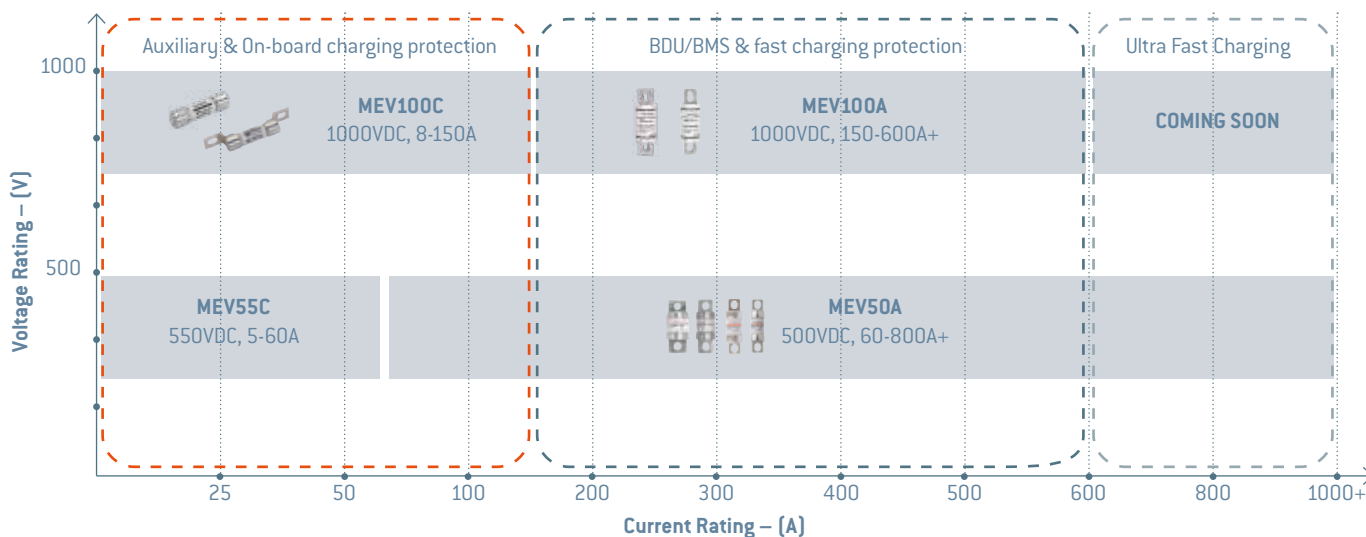
## MERSEN SOLUTIONS IN E-MOBILITY APPLICATIONS

	BATTERY MODULE		
	InBat fuse	Monitoring busbar	Cooling Plate
	BDU / BMS		
	High Voltage fuses	Hybrid pyro-fuse (Autoliv Strategic Partner.)	
PDU / OBC			
Auxiliary fuse	High Voltage fuses		
INVERTER / PDU			
Capacitors	Busbar	Cooling	
DC FAST CHARGING STATION			
SPD	Fuse	Busbar	Cooling

# PRODUCT FOCUS: HIGH VOLTAGE FUSES AND BUSBARS



## HIGH VOLTAGE FUSES: A COMPLETE RANGE COVERING THE FULL DC SPECTRUM

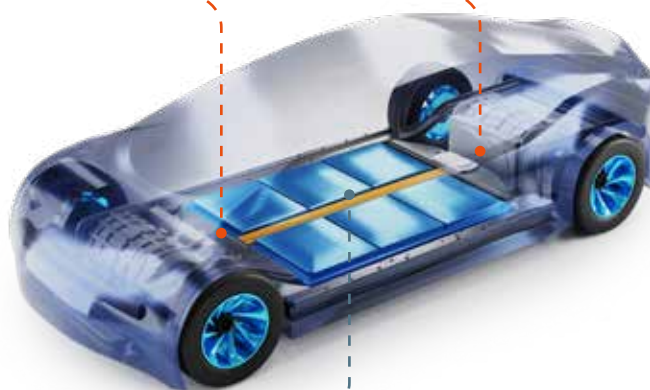


## BUSBAR SOLUTIONS: CUSTOM DESIGNED AND MADE TO FIT YOUR APPLICATION

**DISTRIBUTION / PDU / INVERTER**

**LAMINATED**      **POWDER COATED**

- Ease assembly process
- Increase current carrying capability
- Reduced inductivity
- High resistance to shocks and vibrations
- Components integration (EMC, Capacitors,..)



**BATTERY – CELL INTERCONNECTION**

**MONITORING BUS BAR / INFINI∞CELL**

- High modularity to fit any battery module size and type
- Ultra thin busbar
- No significant overheating
- Compatible with many integration processes

## A GLOBAL REPUTATION FOR QUALITY

Mersen's reputation for outstanding technical expertise, product quality, and engineered safety is the result of over a century of design and manufacturing knowledge, coupled with state-of-the-art equipment in various ISO-9001, ISO-14001 and IATF 16949 registered facilities around the world.



GLOBAL EXPERT  
IN ELECTRICAL POWER  
AND ADVANCED MATERIALS



**NEWBURYPORT, MA, USA**  
Design and Test  
ISO9001 - ISO14001



**ROCHESTER, NY, USA**  
Design & Manufacturing  
ISO9001 - ISO14001



**SAINT-BONNET, FRANCE**  
Design, Test & Manufacturing  
ISO9001 - ISO14001 - ISO 17025



**JUAREZ, MEXICO**  
Manufacturing  
ISO9001 - ISO14001 - IATF 16949



**ANGERS, FRANCE**  
Design & Manufacturing  
ISO9001 - ISO14001 - IATF 16949



**SHANGHAI, CHINA**  
Design, Test & Manufacturing  
ISO9001 - ISO14001 - IATF 16949



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