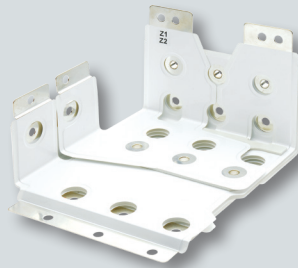
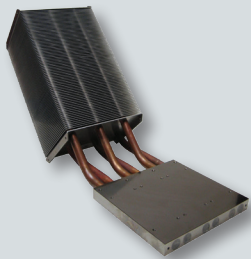




Ferraz Shawmut | Eldre | Idealec | FTCAP

SAFETY,  
RELIABILITY AND  
PROTECTION FOR  
TRANSPORTATION  
INDUSTRY



**Serving the Power  
Electronics Market**

- **Cooling**
- **Bus Bars**
- **Fuses**

# SOLUTIONS FOR POWER MANAGEMENT FROM MERSEN

## TRANSPORTATION: WEIGHT REDUCTION AND ENHANCED PACKAGING

When it comes to cooling, powering or protecting electrical drivetrain and power storage systems in rail and subway vehicles, Mersen brings unique advantages to the transportation industry. We understand the importance of weight reduction and packaging efficiency so that our power management solutions are customized to best serve the exigent needs of the fast growing electric and hybrid transportation market. A properly engineered laminated bus bar provides the lowest overall system inductance and the most balanced and distributed capacitance.

As Silicon Carbide (SiC) technology becomes more and more accepted in transportation industry, all Mersen laminated bus bars models are optimally designed to

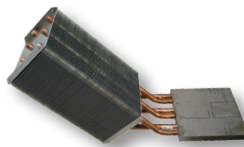
minimize unwanted “skin effect” resulting from high switching nature of Silicon Carbide (SiC) applications.

Mersen laminated bus bars help transportation equipment manufacturers achieve their reliability goals, thus lowering warranty costs and enhancing customer satisfaction. Our cooling solutions application engineers work closely with our customers from the earliest stage of design, driving towards the most robust and reliable cooling solution in the most compact footprint. Mersen’s market leading range of surge protection devices and semiconductor fuses are built to offer the highest level of protection against transients and overcurrents that can commonly occur on a electric vehicle drive train and power distribution networks. Some examples of our solutions are:

HIGH SPEED TRACTION  
INVERTER BUS BAR



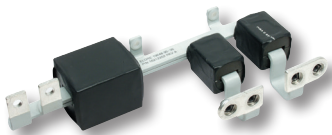
HEAT PIPE HEAT SINK  
FOR ELECTRIC TRAIN



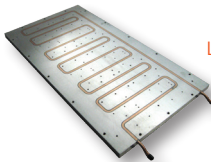
DC FUSES FOR  
PROTECTION OF  
RAILWAY POWER AND  
AUXILIARY CIRCUITS



ELECTRIC VEHICLE  
POWER  
DISTRIBUTION  
BUS BAR



LIQUID COOLED AQUASURF®  
TUBED COLDPLATE  
WITH COPPER TUBES



HIGH  
PERFORMANCE  
SQUARE BODY  
FUSE



ALTERNATIVE ENERGY



TRANSPORTATION



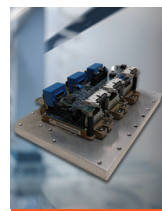
INDUSTRIAL



DESIGN • SIMULATIONS  
• TESTING •



MILITARY



SOLUTIONS FOR SiC  
APPLICATIONS

Mersen is your supplier of choice for power management solutions for various industries. Contact us at [ep.mersen.com](http://ep.mersen.com) for more information.