



## AUXILIARY POWER CONVERTERS

## Power of...



MSc is ambitious to meet the most demanding needs of rolling stock applications.

MSc offers a wide variety of AC and DC supplied Auxiliary Power Converters and Battery Chargers with excellent power-volume-weight ratio.

MSc is ISO EN 9001:2008 certified company. Low LCC (Life Cycle Costs) and high MTBF (Mean Time Between Failures) are key drivers for all MSc design processes.



# Applications

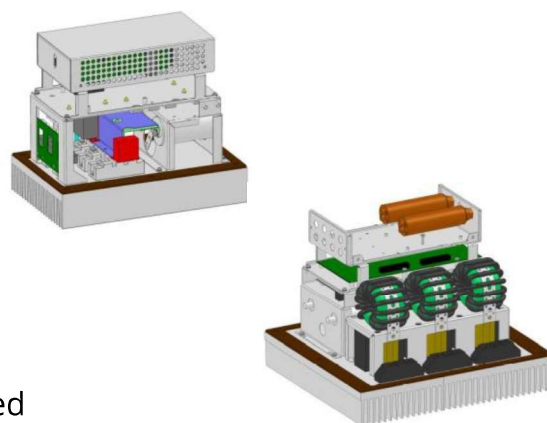
MSc Auxiliary Power Converters are the perfect solution for the auxiliary power applications in various rail transportation vehicles, such as trams, locomotives and rail cars.

- HVAC systems
- Cooling and ventilation fans
- Air compressors
- Circulation pumps
- On-board networks
- Catering equipments
- Emergency power
- Battery charging
- Regenerative power



## Modular design

MSc Auxiliary Power Converters are small sized and light units. Thanks to their modular structure they are easily applicable to customer-specific needs in the demanding circumstances of rolling stock.



The mechanical and functional structures are designed considering the long life cycle the devices will have. The MSc product assortment comprises a wide AC and DC input voltage range, and the solution can comprise various different AC- and DC-outputs.





RAIL

## References

The durability of MSc solutions has been tested not only in the demanding weather conditions of Northern Europe, but also in the heat of the Middle-East and on the busy track networks of Central Europe.

Numerous MSc solutions are currently deployed in many countries as Finland, Sweden, Norway, Russia, Germany, the United Kingdom, Belgium, the Netherlands, Czech Republic, Switzerland, Spain, Saudi-Arabia, Mexico and Australia.

Further information, please contact  
MSc Traction Oy  
Email: [info@msc.eu](mailto:info@msc.eu)  
Tel: +358 50 532 1469



MSc Traction Oy, Alasniitynkatu 30, FIN-33560 Tampere, Finland  
Tel.: +358 50 532 1469. [www.msc.eu](http://www.msc.eu)