



Powertrain Inverter

DC/DC Converters

Start-Stop System

Powerful products for power electronics

Electrification in the automotive market is increasing rapidly as more and more electrical functionalities are integrated in new cars to increase the comfort and safety for the driver and passenger. More important is the electrification of the powertrain, from mild hybrid to the full electric vehicle.

The trend to more electrification results in the need for more power. Higher current voltage applications are required to drive all new electric functionalities within strict mechanical boundaries. Long term reliability in harsh environmental conditions and vibrations resistance are essential for under-the-hood applications.



Our low inductance laminated busbars solutions are used in a variety of applications

- // Traction and auxiliary converters
- // Wind and solar power inverters
- // Industrial power converters VFD
- // Energy storage systems
- // Uninterruptable Power Supply (UPS)

Are you looking for additional information on ROLINX products? Visit our Design Support Hub.

The Design Support Hub provides you with detailed information about how to improve power efficiency and heat management. Explore technical papers, data sheets and videos.

www.rogerscorp.com/designhub



Rogers BV
Advanced Electronics Solutions - ROLINX
Noorwegenstraat 3
Havennummer 7998A
9940 EVERGEM
Belgium
Phone +32 9 235 36 - 11
Fax +32 9 235 36 - 58

Rogers Technology (Souzhou) Co., Ltd.
No. 18 West Shenhu Road
Suzhou Industrial Park
Suzhou, PRC, 215122
China
Phone +86 512 62 58 - 2700
Fax +86 512 62 58 - 2858

Rogers Global Headquarters
2225 W Chandler Blvd.
Chandler, AZ 85224
USA
Phone +1 480 917 6000
Phone +1 877 643 7701
Fax +1 480 917 6049

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ROLINX®
MADE FOR POWER

Discover the future of automotive **ROLINX® e-Mobility solutions** for exceptional electrical performance



ROGERS CORPORATION

ROLINX®
MADE FOR POWER



Battery Pack

Power Distribution Unit

Battery Interconnections

What are ROLINX® solutions?

Best-in-class support

- // Design engineering support from concept to production
- // Responsive and reliable commercial support from quoting through after sales support

Manufacturing technology leadership

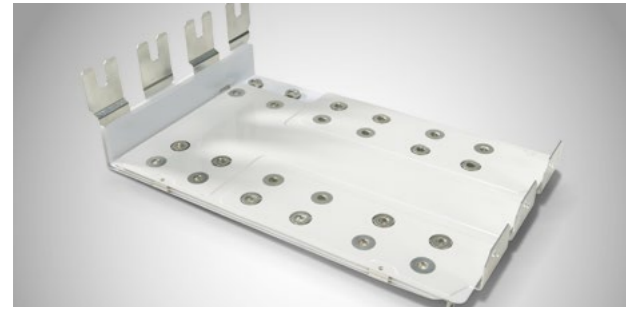
- // More than 40 years of experience in busbar manufacturing
- // Highly automated from end to end
- // Leading-edge quality systems

Integrated solutions provider for power distribution

- // Full range of laminated and powder coated busbars
- // Integrated connectors, cables, circuitry and low inductance DC link capacitors

ROLINX Laminated Busbar Solutions

Designed for low, medium and high voltage applications offering high short circuit resistance, optimized inductance and high currents capabilities.



Advantages

- // Provides optimized inductance
- // Standard 105°C and extended 130°C thermal characteristics
- // Shaped to fit high voltage applications
- // Proven technology

ROLINX Compact

Epoxy powder coated busbars for compact designs to replace cables. It offers tight fitting solution when limited space is available.

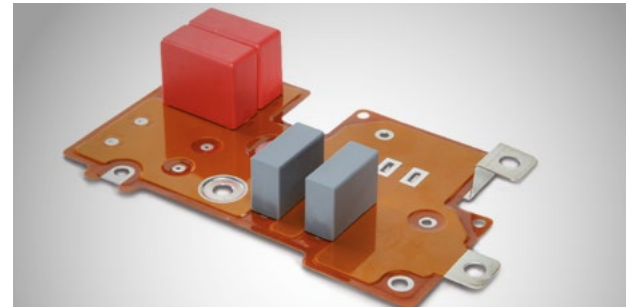


Advantages

- // Optimized design fit for narrow space connection (compact design)
- // High power density capabilities
- // High temperature resistance
- // Easy to insulate very complex shapes

ROLINX PowerCircuit Solutions

This busbar is designed to fill the gap between traditional PCBs and standard laminated busbars. It offers high power density in a 3D design.

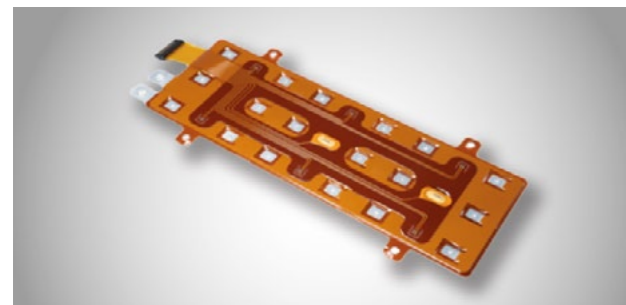


Advantages

- // Low inductance
- // Good thermal management
- // Fit for high volume assembly processes and interconnection techniques
- // Compact 3D design
- // Wave soldering capability

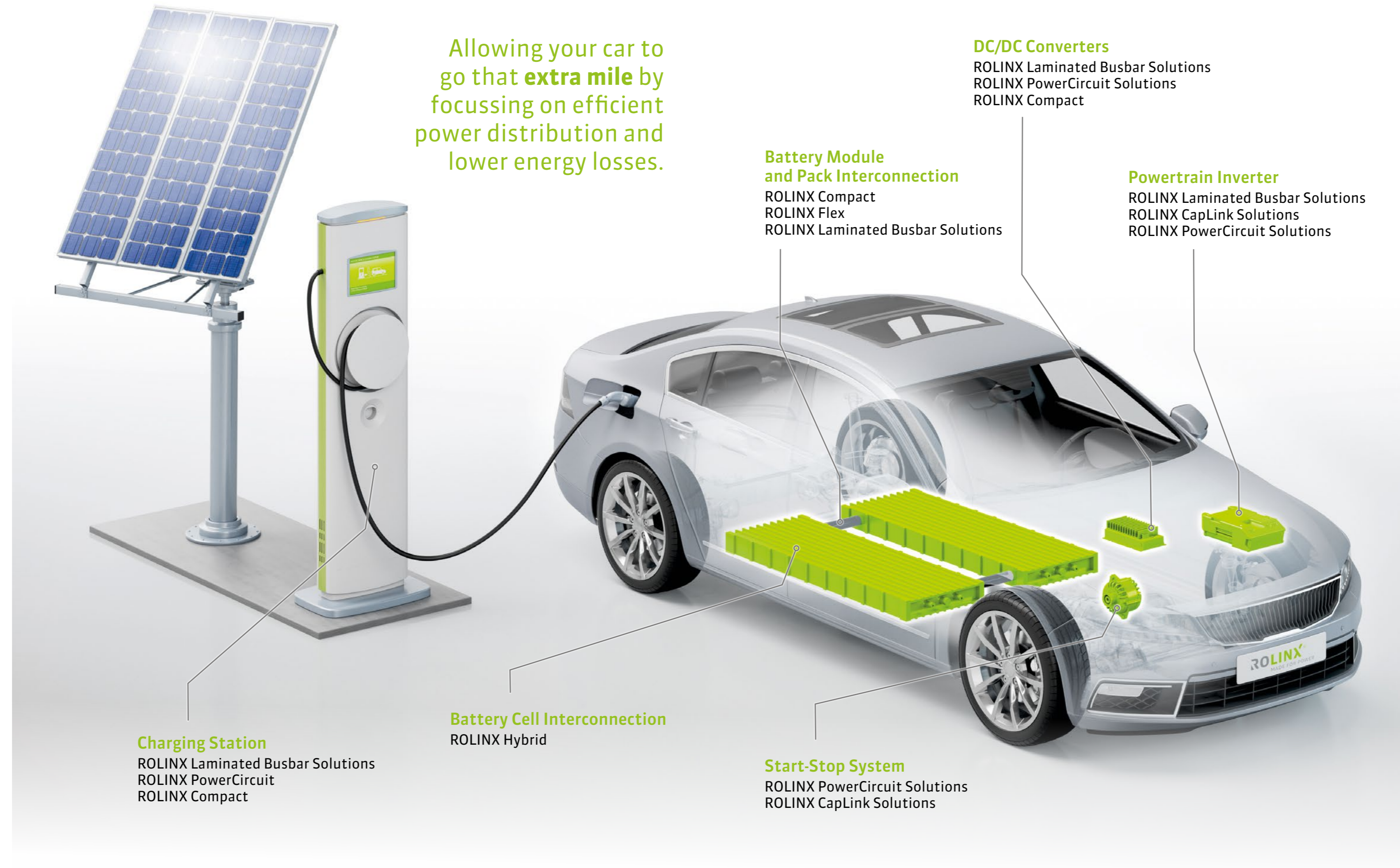
ROLINX Hybrid

Designed as a one piece solution that combines power and signal lines. ROLINX Hybrid laminated busbars are for low voltage applications like battery cell connections in Electric Vehicles.



Advantages

- // One-piece solution for signal lines and power connection in battery modules
- // Reduces installation time
- // Eliminates wiring errors
- // Streamlines the supply chain
- // Suitable for prismatic and cylindrical battery cells



ROLINX Flex

Flexible busbars with pure copper laminates within protective PVC insulations offers flexibility for customized solutions.

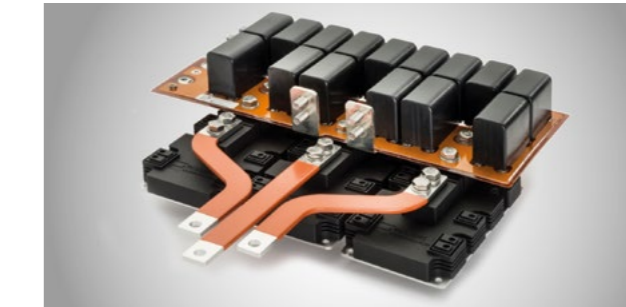


Advantages

- // Flexible configuration with/without rigid part
- // Easy and quick bending
- // Ideal for parts with vibrations and/or thermal expansion
- // Space saving in compact designs
- // Design flexibility

ROLINX CapLink Solutions

Capacitors integrated on ROLINX Laminated Busbar Solutions offer a low inductance.

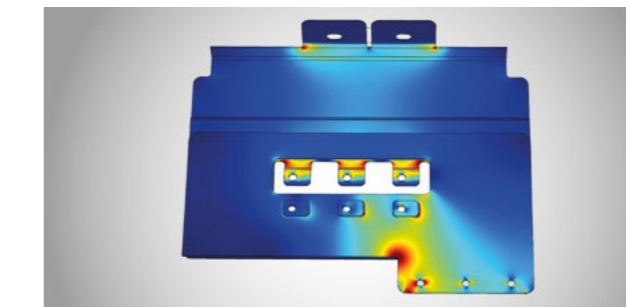


Advantages

- // Low ESL & ESR
- // High ripple current capabilities
- // High reliability
- // Long useful life

ROLINX Busbars Engineering Services

ROLINX Busbars Engineering Services include a range of services to meet critical application needs regardless of size or complexity. Our services include current, heating and inductance simulations, standard and specific testing capabilities like static self-heating and accelerating aging tests.



Advantages

- // Increased reliability due to the optimized busbar layout
- // Reduced busbar architecture complexity
- // Minimized design risk and cost
- // Increased flexibility
- // Lower total cost of ownership