

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





Battery Pack

Battery Interconnections

Powertrain Inverter

DC/DC Converters

Start-Stop System

## What are ROLINX<sup>®</sup> 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

## 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.



### 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.

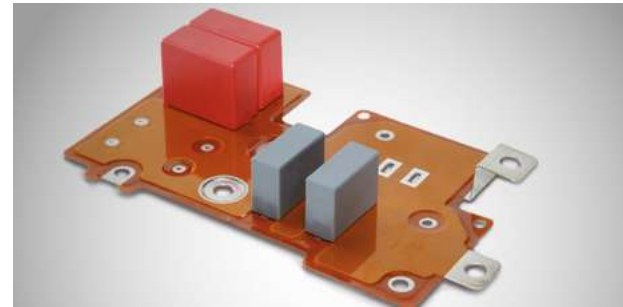


#### Advantages

- // 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.

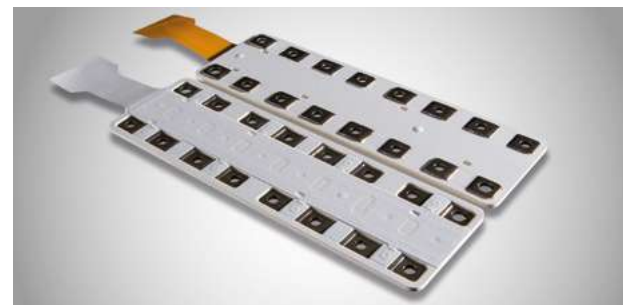


#### Advantages

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

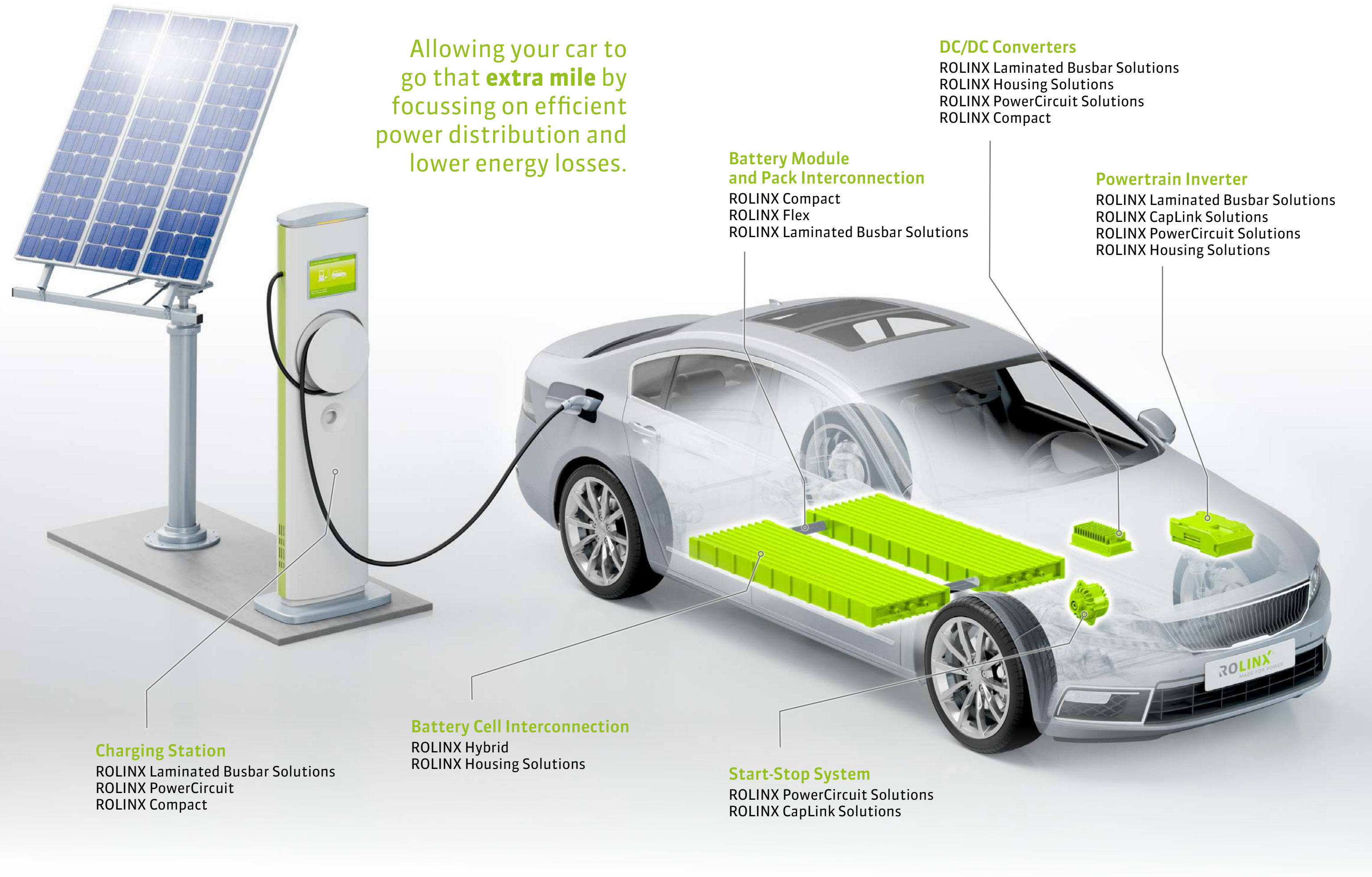
### ROLINX Hybrid

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

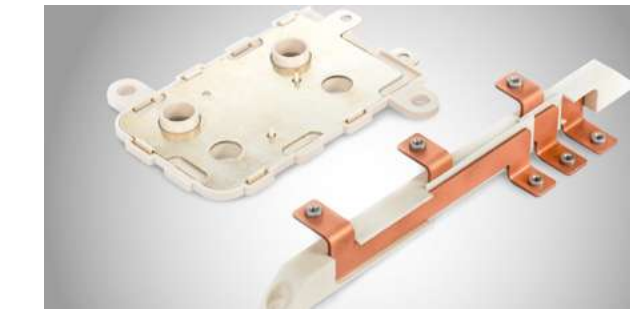
- // One-piece solution for signal lines and power connection in battery modules
- // Reduces installation time
- // Eliminates wiring errors
- // Streamlines the supply chain
- // Suitable for prismatic and cylindrical battery cells



Allowing your car to go that **extra mile** by focussing on efficient power distribution and lower energy losses.

### ROLINX Housing Solutions

ROLINX injection molding solutions in combination with busbars offers great flexibility for customized solutions.



#### Advantages

- // Integration of connectors or structural functions
- // Reduced weight
- // Space savings in compact designs – no spacers required
- // Improves design flexibility with complex 3D shapes
- // Ideal for high volume production

### 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.

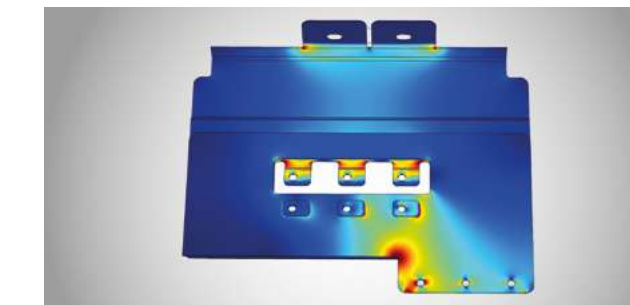


#### Advantages

- // 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





## 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 UPS, VFD

## 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](http://www.rogerscorp.com/designhub)



[europa@rogerscorp.com](mailto:europa@rogerscorp.com)  
[www.rolinx.com](http://www.rolinx.com)  
[www.rogerscorp.com/pes](http://www.rogerscorp.com/pes)

**Rogers BVBA**  
Power 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