**ROLINX Performance** laminated busbars offer all material, lamination and plating configurations with optimized inductance and design for controlling of partial discharge. Ideal for medium and high voltage applications.

**ROLINX Easy** laminated busbars eliminate the outer insulation. They utilize a closed mold technology which offers high short circuit resistance, optimized inductivity and high currents above 1000A. Ideal for low and medium voltage applications.

**ROLINX Thermal** busbars are based on the ROLINX performance busbars technology with an increased working temperature up to 130 C.

**ROLINX CapLink** busbars integrate capacitors on laminated busbars to offer a low inductance DC link solution.

**ROLINX Hybrid** busbars are a one piece solution that combines power and signal lines. These busbars are for low voltage applications such as battery cell connections in electric vehicles.

**ROLINX PowerCircuit** busbars are designed to fill the gap between traditional PCBs and standard laminated busbars. They offer high power density in a 3D design.

**ROLINX Flex** flexible busbars with pure copper within a protective PVC insulation offers flexibility for customized solutions.

**ROLINX Compact** epoxy powder coated busbars replace cables in compact designs. They offer a tight fitting solution when limited space is available.
Connection Techniques

**Busbar to Component Connection**
The component connection techniques solve various issues: mechanical stress due to thermal expansion, tolerance compensation flexibility, ease of installation, low contact resistance, etc.

**Capacitors to Busbar**
Integration of capacitors using soldering process to achieve the lowest inductance of the total DC link system.

**Busbar to Cable Connection**
A laminated busbar equipped with connectors for cabling provides an 'all in one' solution for a flawless connection and easy installation.

**Busbar to Busbar Connection**
From a conventional connection solution (bolted) to more advanced techniques that address issues of flexibility, ease of installation and replacement and low contact resistance.

Typical Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>12 KV DC</td>
</tr>
<tr>
<td>Power</td>
<td>up to several MW</td>
</tr>
<tr>
<td>Ambient temperature range</td>
<td>-50°C / Standard +105°C Extended +130°C</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>55°C / 95% RH</td>
</tr>
<tr>
<td>Cooling system</td>
<td>Natural convection</td>
</tr>
<tr>
<td>Conductor material</td>
<td>Copper, Aluminium</td>
</tr>
<tr>
<td>Insulation material</td>
<td>PET, PI, FR4, DM1, Epoxy, others on request</td>
</tr>
<tr>
<td>Plating</td>
<td>Sn, Ni, Ag, Others</td>
</tr>
<tr>
<td>Product life span</td>
<td>Standard 25 years</td>
</tr>
<tr>
<td>Production test</td>
<td>Partial discharge, high voltage, dimensional</td>
</tr>
</tbody>
</table>

Standards and Certifications

- ISO 9001, ISO 14001
- IATF 16949
- IRIS
- UL 746C (incl. UL 94) US & CA
- NF F-16-101, NF F16-102
- EN 50124-1, EN 50125-1, EN 61287-1, EN 61373, EN 45545-1

Typical Applications

- Traction and auxiliary converters
- Wind and solar power inverters
- UPS, VFD
- Powertrain inverters for electrical vehicles
- Battery cell and pack interconnections
- Communication infrastructure

Rogers offers ‘ready to use & install’ products by mounting the cables or components in-house. This reduces assembly time and simplifies your supply chain.