



## ROLINX<sup>®</sup> Thermal

Product Information

**ROLINX<sup>®</sup> Thermal** is Rogers' solution to respond to an increasing demand for higher power levels in power converters. More power density is reflected in a need for higher working temperatures while copper thickness should remain stable.

While other laminated busbars (ROLINX Easy and Performance) are limited to a working temperature of 105°C, ROLINX Thermal allows increased working temperatures up to 130°C. This results in a unique advantage by upgrading the current system design to a higher power level.

ROLINX Thermal meets the highest humidity conditions. The extended conditions are 85°C / 95% RH, while the standard conditions are 55°C / 95% RH. Upon the requirements of the program, the customer can choose the appropriate humidity conditions for the ROLINX Thermal.

Rogers developed a proprietary Nickel formulation "Tex Nickel" specifically for higher temperature environments, enhancing/assuring smooth process capabilities while guaranteeing both visual and functional quality.

## Advantages

- // Developed to get more power from the existing system and design
- // Extended thermal characteristics: up to 130°C
- // Extended humidity rating
- // Designed to last



## Typical Market Segments

- // Traction (railway, ship propulsion, mining vehicles and other heavy equipment)
- // Industrial converters
- // Clean energy
- // Electricity production



## Typical Technical Characteristics

<b>Voltage</b>	12 kV DC
<b>Power</b>	up to several MW
<b>Temperature range</b>	- 50°C / + 130°C
<b>Relative humidity</b>	55°C / 95% RH (standard); 85°C / 95% RH (extended)
<b>Conductor material</b>	Copper, Aluminium
<b>Insulation material</b>	Polyester dielectric film, rigid insulation board
<b>Production test</b>	Partial discharge, high voltage, dimensional

### Rogers BVBA

Power Electronics Solutions - ROLINX  
Afrikalaan 188  
9000 Gent  
Belgium  
Phone +32 9 235 36 - 11  
Fax +32 9 235 36 - 58

### Rogers Technology (Suzhou) Co., Ltd.

No. 18 West Shenhu Road  
Suzhou Industrial Park  
Suzhou, PRC, 215122  
Phone +86 512 62 58 - 2700  
Fax + 86 512 62 58 - 2858

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

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