



ROLINX[®] Thermal

Product Information

ROLINX[®] 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 125°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 125°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

Voltage	12 kV DC
Power	up to several MW
Temperature range	- 50°C / + 125°C
Relative humidity	55°C / 95% RH (standard); 85°C / 95% RH (extended)
Conductor material	Copper, Aluminium
Insulation material	Polyester dielectric film, rigid insulation board
Production test	Partial discharge, high voltage, dimensional

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