Application Note

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ThermTec sm

APPLICATION: BUSBAR

Overview

Busbars are one of the methods of distributing power through a system. In most cases, they are used to move high current from a power supply to backplanes, rectifiers, and other components within an enclosure. Consisting of copper or aluminum bars, they are bent, drilled and tapped to accommodate the enclosure and connect to various connecting cables or PCBs. Busbars may be a simple formed rod, or complex enough to have multiple bars to carry various currents along with many connectors and circuit breakers. Busbars are used by packaging engineers to lower complexity, increase cooling, decrease assembly time, and save space.

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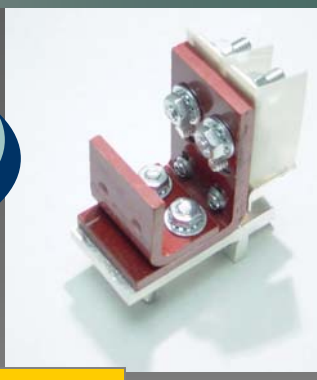

ThermTec Solution

ThermTec has solutions running from simple stamped board stiffeners to complex packaging solutions, including the enclosure. Our custom busbars can include single conductor, multi-conductors, taps, drilled and tapped holes, or connectors as specified by your customer.

Key benefits

- Lowers Cost
- Less complicated than wiring harnesses
- Higher Reliability
- More efficient cooling

ThermTec is able to combine busbar and packaging system.

Applications and Target Customers

The following applications are the markets normally served by busbars. This list does not include every market, but gives direction for the most common uses.

- **Power Conversion**
  - UPS applications
  - Motor controls
  - inverter bus bars (IGBT)
- **Telecom**
  - Central office power bus
  - Power systems
  - Battery rectifiers
  - Cellular base stations
  - Terminal plates
  - Grounding kits
  - Battery intercell connectors
- **Computer applications**
  - Mainframe power busbars
  - Backplane busbars
- **PCB applications**
  - Computer power supplies
  - Board stiffeners
  - PC power bus

About ThermTec

ThermTec provides custom solutions in metal, whether it is an aluminum extrusion, stamped and formed metal, busbar, or insulated metal substrate. With three plants and over 500,000 square feet of combined manufacturing capability, ThermTec has the ability to cut costs from products while maintaining the highest quality and on time delivery.