

Computer Room Small Busbar System



Overview

Power supply from the small busbar in the computer room Busbars are the backbone of a low-voltage switchboard: rigid conductors that collect and distribute.

Key Takeaways

Compact busbars provide safe, efficient power distribution and grounding in computer rooms, with options ranging from mini 100A bars to 19-inch rack-mounted copper kits.

Mini Busbars for Limited Space

For tight spaces in server racks or enclosures, mini busbars are ideal. For example, Pacer's mini busbar measures just over 4 inches in length, supports 100 amps continuous power, and is made from tinned copper for corrosion resistance. It can handle up to 48V DC and 300V AC, making it suitable for small-scale power distribution in computer rooms.

Installation is simple, and optional covers provide added protection against accidental contact.

Rack-

Mounted Grounding Busbars

For grounding and bonding within racks, 19-inch busbar kits are available. These typically include a copper ground bar, pre-installed screws, and a 4-foot UL-listed grounding cable. They can be positioned anywhere in the rack to meet grounding requirements and are compatible with standard enclosures or cabinets.

These kits are lightweight and easy to install, providing reliable grounding for multiple devices.

Modular Busbar Systems

For larger or expandable setups, modular busbar systems offer flexibility. These systems use copper or aluminum bars with supports and terminals, allowing for tool-free installation and easy expansion. They ensure low-loss power distribution and maintain system stability under high loads.

Modular systems are particularly useful in data centers or commercial computer rooms where future expansion or high-density power distribution is expected.

Key Considerations

Current Rating: Ensure the busbar can handle the total load of connected devices (e.g., 100A mini busbars for small racks). **Material:** Copper is preferred for conductivity; tinned copper resists corrosion. **Mounting:** Choose between rack-mounted kits, wall-mounted plates, or modular busbar supports.

Safety: Look for insulated or contact-protected designs to prevent accidental shocks. **Scalability:** Modular systems allow easy addition of new devices without rewiring. By selecting the appropriate busbar type—mini, rack-mounted, or modular—you can achieve efficient, safe, and scalable power distribution in a computer room environment.

Article Content

Power supply from the small busbar in the computer room

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A Guide to Electrical Busbars: Common Uses & Design

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