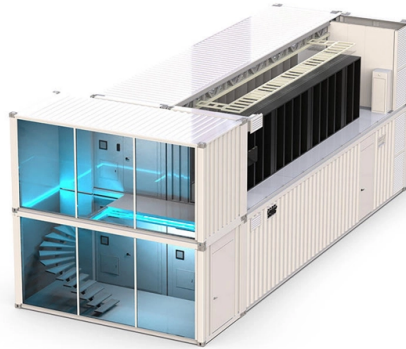


Model of small busbar in computer room



Overview

Principle of Small Busbar in Computer Room
Below, we explain how a CMD Betatrak underfloor busbar would be instal.

Key Takeaways

Small busbar models for computer rooms include modular AC/DC busbars, insulated rack bonding bars, and compact power distribution busbars from manufacturers like Rittal, Chatsworth, TE Connectivity, and EAE Electric.

1. Rittal RiLine Busbar Systems
 - Current Rating: Up to 2100 A
 - Poles: 3-pole and 4-pole options
 - Bar Spacing: 40 mm and 60 mm center distances
 - Features: Tool-free mounting, short-circuit resistant up to 65 kA, all-round contact hazard protection, compatible with NH slimline fuse-switch disconnectors and adaptors
 - Applications: Individual switchgear, controlgear, and modular distribution in computer rooms or industrial panels
2. Chatsworth (CPI) Busbars
 - Types: Primary Bonding Busbar (PBB) and Secondary Bonding Busbar (SBB)
 - Materials: Hard-drawn electrolytic tough pitch 110 alloy copper
 - Dimensions:
 - 10" (254 mm) for 1/4" single bolt lugs

- 12" (305 mm) for 9 lugs
- 20" (508 mm) for 17 lugs
- Rack Bonding Busbars: 3/16" thick x 3/4" H, with #6-32 tapped lug holes on 1" centers
- Vertical Rack Busbars: 36" and 72" lengths with self-clinching studs for equipment bonding
- Applications: Rack grounding, consolidating equipment bonding, and controlling current paths in telecom or server rooms

3. TE Connectivity Busbars & Terminals

- Portfolio: Standard and custom busbar solutions
- Features: Cost-effective, reliable, and suitable for compact installations
- Applications: Power distribution in computer rooms, switchboards, and modular panels
- Selection: Users can filter by current rating, material, and mounting type to find small busbar models suitable for high-density racks

4. EAE Electric Power Busbars

- Current Range: 32 A to 6300 A
- Construction: Insulated aluminum or copper conductors in a closed modular body
- Advantages: Modular, reusable, mechanically strong, lower energy loss, and effective heat dissipation
- Applications: Distribution from transformers or panels to loads within computer rooms or data centers
- Compact Options: Smaller current ratings (32-125 A) are suitable for small busbar installations in server racks or telecom rooms

5. Key Considerations for Small Busbars in Computer Rooms

- Material: Copper for high conductivity; aluminum for lightweight and cost-effective solutions
- Current Rating: Ensure the busbar can handle the expected load without overheating
- Mounting: Tool-free or insulated mounting for safety and ease of installation
- Spacing: Center-to-center spacing affects compatibility with rack-mounted equipment

- Accessories: Include adaptors, fuse-switch disconnectors, and grounding kits for safe operation These models provide a comprehensive selection of small busbars suitable for computer rooms, offering modularity, safety, and efficient power distribution for high-density IT environments.

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