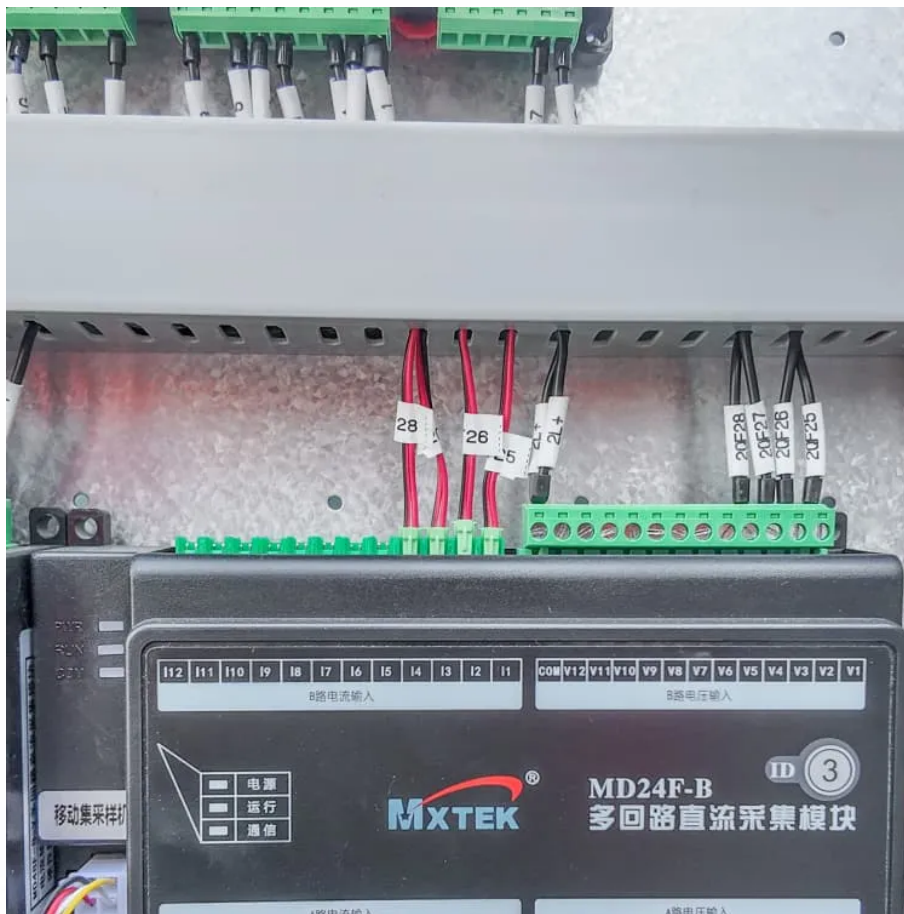


Inverter cabinet in server room





Overview

What is a server room?

The server room is the heart of any data center facility. ABB's server room solutions provide an efficient and flexible infrastructure for your facility ensuring optimal protection and advanced energy distribution. Server room solutions include: Digital technology & services to extend the life and improve the productivity of your assets.

How to maintain optimal temperature and humidity in a server room?

There are various cooling methods to maintain the optimal temperature and humidity levels in a server room: 1. Air Conditioning Units (CRAC/CRAH) CRAC (Computer Room Air Conditioning) Units: These function like standard air conditioners but with more precision cooling capabilities. They are also known as "room-based cooling".

How do I Choose an HVAC system for a server room?

Unlike traditional office spaces, server rooms require precise temperature and humidity control. High-performance IT equipment can overheat quickly if the cooling system is inadequate or inconsistent. Proper HVAC systems in these environments help: When selecting an HVAC solution for a server room or data center, consider these critical factors:.

How much space does a server cabinet need?

Don't overload the cabinet by trying to fit in too many servers —75% to 80% of capacity is about right. Leave at least 1U of space between rows of servers for front-to-back ventilation. Maintain at least a 4 cm clearance between equipment and the front and back of the cabinet.



Inverter cabinet in server room



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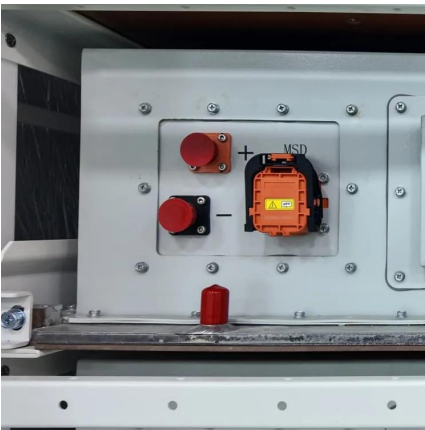
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[Server Cabinet Cooling](#)

Furthermore, air-conditioned cabinets - like Black Box's ClimateCab(TM) Climate-Controlled Cabinets - even let you save energy, because you only need to cool the cabinet and not the ...



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