

Precision Intelligent Display Cabinet for Computer Rooms



Overview

Browse display cabinets with adjustable shelves and glass doors. Ideal for organizing and displaying your favorite items.

Key Takeaways

Precision Intelligent Display Cabinets integrate power distribution, environmental monitoring, and real-time display to optimize computer room operations and energy efficiency.

Precision intelligent display cabinets are advanced modular systems designed for computer rooms and data centers. They combine intelligent power distribution, environmental monitoring, and display capabilities to provide real-time insights into the operational status of servers and network equipment. These cabinets are essential for modern modular computer rooms, AI infrastructure, and high-density server environments, ensuring efficient energy management, equipment safety, and operational reliability .

Key Features

1. Intelligent Power Distribution

- Monitors total input voltage, current, frequency, and power for each output shunt.
- Supports multiple AC inputs and outputs with high-precision measurement.

- Provides remote communication via RS485 for integration with environmental monitoring systems.

- Includes lightning protection modules to safeguard equipment from instantaneous high currents . 2. Environmental Monitoring

- Real-time monitoring of temperature, humidity, and smoke inside the cabinet.

- Fire control and alarm systems integrated with sensors for early detection.

- Access control and security monitoring through intelligent locks and card readers .

3. Display and Visualization

- LED or LCD display units show power quality, operational status, and environmental data.

- Some cabinets, like AUO Display Plus, offer high-fidelity LED modules with wide color gamut, HDR support, and seamless video wall configuration for control rooms or demo environments . 4. Modularity and Maintenance

- Modular design allows easy expansion, backup, and hot-swappable components.

- Small footprint and flexible deployment reduce space and delivery costs.

- Front and rear access for maintenance, with magnetic or vacuum tools for LED modules . 5. Safety and Reliability

- High and low-temperature reliability testing ensures stable operation.

- Strong grounding and electrical isolation protect both equipment and personnel.

- Intelligent monitoring provides real-time alarms for potential hazards, enabling proactive risk management .

Benefits

- Energy Efficiency: Optimizes power usage and reduces cooling costs.

- Operational Transparency: Real-time monitoring of power and environmental conditions.

- Enhanced Safety: Lightning protection, fire alarms, and access control.

- Scalability: Supports high-density server racks and AI infrastructure.

- Reduced Maintenance: Remote monitoring and modular components minimize manual intervention .

Applications

- Modular Computer Rooms: For data centers requiring precise energy and environmental management.

- AI and High-Performance Computing: Supports heavy server loads and liquid cooling systems.
- Control Rooms and Demo Rooms: High-quality LED display cabinets provide visualization of operational data.
- Enterprise IT Infrastructure: Ensures uptime, safety, and efficient energy utilization . Precision intelligent display cabinets are therefore a comprehensive solution for modern computer rooms, combining power management, environmental control, and high-quality display to enhance efficiency, safety, and operational insight.

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