

RIVO MULTITRADE OPTICAL SYSTEMS

Jordan s hot-swappable power distribution unit is resistant to high temperatures



Overview

Hot Swap Systems provides the user the ability to remove and replace a module without compromising system functionality.

Key Takeaways

Hot-swappable PDUs are designed to allow live module replacement while maintaining operation, and many modern designs include thermal management to resist high temperatures. Hot-Swap Functionality

Hot-swappable PDUs enable technicians to replace or upgrade modules without shutting down power, ensuring continuous operation for critical equipment . This is achieved through modular architecture, where each power module operates independently and shares the load with other modules. A manual bypass switch or distributed control system allows the PDU to maintain power to connected devices even during maintenance .

High-Temperature Resistance

Modern hot-swappable PDUs and inverters are engineered to operate in elevated temperature environments, often up to 52°C for premium units . This is accomplished through:



- High-power-density semiconductors that tolerate heat without derating performance.
- Dual-cycle thermal management systems that actively dissipate heat from modules.
- Redundant module design (N+X), which ensures that if one module overheats, others can maintain the load without interruption . These features make hot-swappable PDUs suitable for telecom cabinets, data centers, and industrial environments where high ambient temperatures and continuous operation are common .

Additional Reliability Features

- Protection circuits against arcs, surges, and inrush currents prevent damage during module insertion or removal .
- Real-time monitoring allows operators to track temperature, power consumption, and module health, enabling predictive maintenance and reducing the risk of overheating .
- Compliance with international safety standards (UL, CE, FCC, IEC) ensures that the PDU can safely operate under high-temperature conditions .

Summary

A hot-swappable PDU, like those described in modern modular designs, supports live maintenance without power interruption and is engineered to resist high temperatures through advanced thermal management, high-power components, and redundant architecture. These features make it highly reliable for mission-critical applications in challenging environments .

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HOT SWAP POWER SUPPLIES

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

