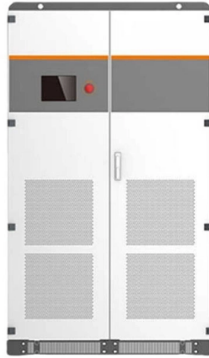


Power Distribution Box APUPS



Article Overview

A Power Distribution Box (PDB) in an APUPS system safely routes, protects, and manages power from the UPS to connected loads, ensuring reliable and controlled distribution.

Function and Role

A PDB acts as the central hub for distributing power from an APUPS (Advanced Power Uninterruptible Power Supply) to various devices and subsystems. It ensures that power is delivered safely to inverters, DC-DC converters, compressors, pumps, heaters, and auxiliary loads while providing short-circuit protection, isolation, and operational safety. This is critical in environments where electrical load transients, vibration, and thermal cycling are common, such as industrial or mobile applications (EG Electronics) .

Key Features

- **Voltage Range:** PDBs can handle a wide range of voltages, typically from 60 VDC to 1000 VDC depending on system design and application requirements .
- **Protection:** Integrated circuit breakers, fuses, and isolation switches protect both the UPS and connected equipment.
- **Monitoring:** Many PDBs include monitoring capabilities to track load distribution, detect faults, and ensure system reliability.
- **Modularity:** Modern PDBs often feature modular designs, allowing flexible configuration for different loads and easy maintenance .
- **Environmental Robustness:** Designed to withstand harsh conditions, including moi...

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Power distribution unit

A power distribution unit (PDU) is a device fitted with multiple outputs designed to distribute electric power, especially to racks of

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