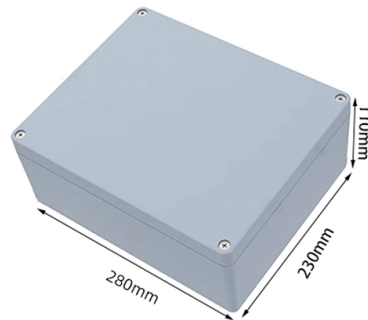


Configured power distribution box



AI Overview

A configurable power distribution box is a modular system designed to safely distribute and manage electrical power, customizable for automotive, industrial, or data center applications. Overview A configurable power distribution box (PDB) or power distribution module (PDM) is a centralized unit that distributes electrical power from a main source to multiple circuits while providing protection and control. These systems are designed to be modular and customizable, allowing users to configure the number and type of circuits, protection devices, and connectors according to specific requirements. Key Features Modular Design: Accepts plug-in devices such as fuses, circuit breakers, relays, and diodes, enabling flexible circuit protection and control. Customizable Configurations: Can be tailored to meet unique design requirements, including the number of poles, voltage ratings, and connector types. High-Density Power Distribution: Supports multiple high-power circuits in a compact footprint, suitable for commercial vehicles, data centers, or industrial equipment. Environmental Protection: Many units are rated for harsh conditions, with IP ratings such as IP67 or IP69K, ensuring resistance to dust, water, and vibration. Remote Management: Some units, particularly in IT and data center applications, offer network management interfaces (Web, SNMP, Telnet) for remote monitoring, configuration, and firmware updates. Applications Automotive and Commercial Vehicles: EPC modules from Littelfuse are used in trucks, construction, and agricultural equipment to manage DC power safely and efficiently. Data Centers and IT Infrastructure: Configurable PDU units from Schneider Electric and Vertiv provide AC power distribution with front-access servicing, mobility, and remote management for high-density racks. Industrial and Electrical Systems: Burndy configurable power distribution blocks allow custom combinations for splicing and distributing power from primary to branch circuits, compatible with copper and aluminum conductors

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