Maximum Distribution Box



Overview

From decentralized energy, signal and data distribution to distribution boxes for smart buildings, we offer the right solution. We mount any electronics in the manifolds!

Key Takeaways

A maximum distribution box is an electrical enclosure designed to safely distribute high-current power, typically rated up to 60–63 amps, with multiple protective outlets and circuit breakers.

Overview

A distribution box (also called a distribution board, breaker box, or load center) is used to receive incoming electrical power and distribute it to multiple outgoing circuits while providing protection through devices like MCBs, RCDs, RCBOs, fuses, and surge protective devices. Maximum distribution boxes are designed for higher current loads, often in industrial, commercial, or large residential applications.

Key Specifications

Maximum Current Rating: Common high-capacity units handle 60A to 63A input, suitable for heavy-duty equipment or multiple circuits. Voltage: Typically designed for 110–120V single-phase or three-phase systems, depending on the model. Outlets and Protection: Units often include multiple NEMA 5-20 IP44 waterproof sockets, each protected by independent 20A branch circuit breakers, ensuring safe operation for connected devices.

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Enclosure: Made from durable materials like ABS plastic, with IP65-rated waterproofing and IP54 dust/water resistance, suitable for indoor and outdoor use. Additional Features: Some models integrate energy meters, leakage protection, and pre-wired internal assemblies for easy installation.

Applications

Maximum distribution boxes are ideal for: Industrial and commercial sites requiring multiple high-current circuits. Events and temporary power setups, such as festivals or construction sites. Residential or workshop use where multiple high-power devices need safe distribution.

Decentralized electrical installations in smart buildings or automation systems.

Installation and Safety

Mounting: Wall-mounted or portable, depending on the design. Wiring: Pre-wired internal assembly simplifies connection; users typically connect live (L) and neutral (N) wires according to the diagram. Protection Strategy: Each outlet or circuit is protected by a breaker to prevent overloads, short circuits, and electrical hazards.

Standards Compliance: Many units comply with IEC 61439, UL/NEC, or regional electrical codes.

Load Capacity

For example, a 60A, 110V distribution box has a maximum theoretical load of about 6,600W, with each 20A outlet supporting approximately 1,920W continuous load under safety guidelines. Exceeding these limits can compromise safety and damage connected equipment.

Conclusion

A maximum distribution box is a robust solution for safely distributing high-current electricity across multiple circuits. When selecting a unit, consider current rating, number of outlets, protection devices, enclosure rating, and compliance with local electrical standards to ensure safe and reliable operation.

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