

Outdoor distribution box installed on the wall



Article Overview

Outdoor wall-mounted distribution boxes are specially designed enclosures that provide safe, weatherproof power or fiber distribution for exterior installations.

Key Features and Specifications

Weatherproof Enclosure: Outdoor distribution boxes must be rated for environmental protection, typically NEMA 3R or higher for rain-tight applications, or IP-rated for dust and water ingress protection. Coastal or chemical-exposed areas may require NEMA 4X for corrosion resistance and durability . **Internal Components:** Electrical boxes include bus bars, overcurrent protection devices (circuit breakers or fuses), main disconnects, and grounding systems, all designed to meet NEC Article 312 requirements . Fiber optic boxes provide splice trays, PLC splitters, and cable management for FTTH or ODN networks . **Mounting:** Wall-mounted units are typically surface-mounted to prevent water ingress, with the front edge set back no more than 1/4 inch from the finished wall surface . They can be installed under eaves or on building exteriors, and some models are suitable for both residential and commercial applications . **Capacity and Configuration:** Electrical boxes vary from 100A to 400A, with single or multi-circuit configurations. Fiber optic boxes can accommodate 4 to 48 fiber connections, supporting direct termination or mini-splitter distribution . **Safety Features:** Lockable covers, reinforced steel or powder-coated enclosures, and proper spacing for wire bending ensure protection against unauthorized access, moisture, dust, and physical impact

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