

Rainproof power distribution box for outdoor power supply



Article Overview

IP65-rated outdoor power distribution boxes provide reliable protection against rain, dust, and environmental hazards for safe outdoor electrical installations.

Key Features to Consider

Ingress Protection (IP) Rating: Look for boxes with IP65 or higher, which ensures protection against dust and low-pressure water jets, while IP66–IP68 ratings offer resistance to stronger water exposure or temporary submersion . **Material and Durability:** Outdoor boxes are commonly made from galvanized steel, aluminum, ABS plastic, or UV-stabilized polycarbonate. Metal enclosures offer high impact resistance and corrosion protection, while plastic options are lightweight, UV-resistant, and non-corrosive . **Ventilation and Heat Management:** Some boxes feature ventilated designs with rainproof air inlets and internal fans to dissipate heat, which is important for housing sensitive electronics or high-power devices . **Mounting Options:** Boxes can be wall-mounted, pole-mounted, or free-standing, with removable back panels for easy installation and flexible wiring layouts . **Safety Features:** Advanced outdoor distribution boxes often include circuit breakers, leakage protection, and fire-retardant materials to prevent overloads and electrical accidents . **UV and Weather Resistance:** For sun-exposed installations, choose UV-stabilized housings to prevent yellowing, cracking, or structural fatigue over time .

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