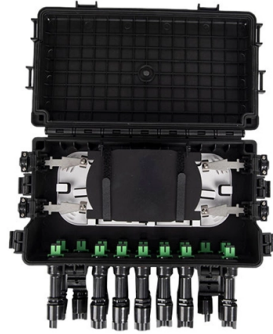


Metal cover plate of distribution box



Article Overview

The metal cover plate of a distribution box provides mechanical protection, corrosion resistance, and safety for internal electrical components.

Construction and Material

Metal cover plates are typically made from high-strength cold-rolled steel (Q195) or galvanized steel, ensuring rigidity and durability under load or during cable overheating . Some models feature powder-coated finishes for enhanced resistance to dust, dirt, and mechanical impacts, while others include anti-corrosion treatments verified through extended testing . The thickness of the metal ranges from 1.2mm to 2mm, depending on the enclosure type and intended protection level .

Protection and Safety

The cover plate contributes to the IP protection rating of the distribution box. For indoor applications, IP30 is common, providing protection against solid objects larger than 2.5 mm . For outdoor or more demanding environments, IP65-rated boxes include a rubber gasket around the door to ensure dust and water resistance . The cover plate also prevents accidental contact with live components, enhancing operational safety.

Design Features

- Drop-down or hinged design for easy access to internal components like MCBs, RCDs, RCBOs, and surge protection devices

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