

What electrical distribution boxes are there in Iran



Overview

Using a fuse box enhances the safety of a building or vehicle by minimizing the risk of electrical fires or damage to equipment.

Key Takeaways

Electrical distribution boxes in Iran are installed in residential, commercial, industrial, and utility areas, including substations, streets, and building interiors, depending on voltage level and purpose. Residential and Commercial Installations

In urban and suburban areas, low-voltage (LV) distribution boxes are typically installed:

- Inside or outside buildings for apartment complexes, offices, and commercial centers.
 - On streets or sidewalks in the form of compact, weatherproof enclosures to serve multiple buildings.
 - Near transformers in residential neighborhoods to distribute electricity safely to homes and small businesses. These boxes are designed to comply with IEC standards and are often manufactured locally by companies such as Iran Tablo Co. and AlfaBargh, which provide LV panels, switchgear, and compact substations .
- Industrial Installations



For industrial facilities, including oil, gas, petrochemical, steel, and water treatment plants, distribution boxes are installed:

- Inside industrial buildings for machinery and process control.
 - Outdoor substations for medium-voltage (MV) distribution, often in explosion-proof enclosures for hazardous environments.
 - Near production lines to manage power distribution efficiently and safely.
- Companies like Darian specialize in MV/HV/EHV substations and industrial electrical projects, ensuring proper installation, testing, and commissioning of distribution equipment .

Utility and Substation Installations

At the utility level, distribution boxes are installed:

- Within substations to manage power from high-voltage transmission lines down to medium and low voltage for local distribution.
- Along overhead and underground power lines to control and protect circuits.
- In compact substations for urban distribution networks, often near streets or public areas. These installations are part of Iran's extensive power grid, which includes thousands of kilometers of power lines and hundreds of power plants supplying electricity nationwide .

Safety and Standards

All distribution boxes in Iran are designed to meet safety, environmental, and quality standards, including ISO 9001 and IEC specifications. Outdoor boxes are typically weatherproof and tamper-resistant, while industrial boxes may be explosion-proof for hazardous areas . In summary, electrical distribution boxes in Iran are strategically installed across residential, commercial, industrial, and utility sectors, with placement determined by voltage level, safety requirements, and accessibility for maintenance and operation.

Article Content

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What is the function of a distribution board (DB)?

This box is called the distribution board (DB). It is one of the essential components of a home's electrical system. Also known as the

Iran

In Iran, electrical sockets and plugs are type C or F. Type C has two round pins and type F has two round pins with two earth clips

12 types of distribution boxes and how to choose them

Hey there! If you're planning any electrical project, whether it's for your home, office, or a big commercial setup, you've

Distribution Boards

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

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