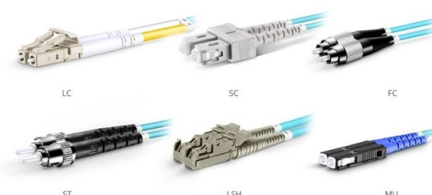


Characteristics of Syrian power distribution boxes



OM3 Fiber Patch Cable Family

Overview

The power sockets in Syria are of type C, E and L. The standard voltage is 220 V at a frequency of 50 Hz.

Key Takeaways

Syrian power distribution boxes, such as XL-21 and GGD types, are low-voltage indoor cabinets designed for flexible, safe, and reliable power distribution in industrial, commercial, and civil applications. XL-21 Type Distribution Cabinet

The XL-21 low-voltage power distribution cabinet is widely used in Syria for industrial, mining, educational, and government facilities. Key characteristics include:

- **Structure and Materials:** Made of bent steel plates and welded angle steel, with a single-sided front-opening design for easy maintenance. The front door exposes all internal equipment when opened, and grounding screws ensure reliable earthing .
- **Electrical Components:** Equipped with air circuit breakers, fuses, contactors, and thermal relays. Knife switches can be installed with handles on the upper right front pillar. Operation buttons and indicator lights can be mounted on the front door .
- **Rated Parameters:** Main circuit voltage up to 380V AC, insulation voltage 660V AC, rated current $\leq 800A$, auxiliary circuit voltage 220V or 380V AC, and frequency 50Hz .
- **Protection Level:** IP30, compliant with IEC 60439-1 and GB7251.1 standards .

- Operating Environment: Ambient temperature -5°C to $+40^{\circ}\text{C}$, altitude $\leq 2000\text{m}$, relative humidity $\leq 50\%$ at 40°C (higher allowed at lower temperatures), and installation tilt $\leq 5^{\circ}$.

GGD Type Distribution Cabinet

The GGD type AC low-voltage distribution panel is another common type in Syria, designed for higher capacity applications:

- Electrical Capacity: Rated working voltage 400V AC, rated current up to 3150A, suitable for power conversion, distribution, and control in power plants, substations, factories, and mines.
- Design Features: Flexible electrical schemes, strong breaking capacity, excellent dynamic and thermal stability, and broad adaptability to different electrical configurations.
- Protection Level: IP30, compliant with GB7251.1-2023 standards.
- Operating Environment: Indoor installation, ambient temperature -5°C to $+40^{\circ}\text{C}$, altitude $\leq 2000\text{m}$, relative humidity $\leq 50\%$ at 40°C , with higher humidity allowed at lower temperatures. Installation tilt should not exceed 5° .

General Considerations

- System Compatibility: Both XL-21 and GGD cabinets support single-phase and three-phase systems, including IT, TN-C, and TT configurations, with load currents and voltages suitable for low-voltage distribution.
- Applications: Used for power and lighting distribution in industrial, commercial, and civil buildings, ensuring safe and reliable operation under normal environmental conditions.
- Maintenance and Safety: Cabinets are designed for easy access to internal components, with grounding and protective devices to prevent electrical hazards. These distribution boxes are critical components in Syria's electricity network, which has faced challenges due to infrastructure damage and high transmission losses, making reliable low-voltage distribution essential for both urban and industrial power delivery.

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Introduction In 2011, before the war, the electrification level in Syria was 96,3 %which means that the electrical service had reached

Syria Electric Plug Types: PRIMARY Type C (220V)

Syria uses 220V electricity, which is significantly higher than the 120V standard used in North America. This means you need to be

Map of Syrian Electricity Grid

Map of Syrian Electricity Grid - Syria - National Energy Grids - Library - GENI - Global Energy Network Institute Syrian Energy

UEG - Union Electrical Group

Union Electric Group has five manufacturers that are specialized mainly in power cables (Low Voltage,

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The distribution box acts as the center of power distribution, distributing electricity to all connected devices. A

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