

Saudi Arabia Low-Voltage Distribution Box Models and Specifications



Overview

Arabian Transformers Co. (ATC) | Power Distribution Solutions in The Single/Dual Low Voltage Distribution Panel meets the stringent technical requirements.

Key Takeaways

Saudi Arabia offers a wide range of low-voltage distribution boxes with current ratings from 300A to 4000A, voltage configurations of 230/133V and 400/230V, and robust enclosures suitable for indoor and outdoor use. Key Manufacturers and Models

1. Arabian Transformers Co. (ATC)

- Models: Single/Dual Low Voltage Distribution Panels
- Voltage Ratings: 230/133V and 400/230V
- Current Ratings: 800A to 4000A
- Short-Circuit Ratings: Up to 85kA for 2 seconds
- Construction: Galvanized steel or Aluzinc sheet, suitable for indoor/outdoor (R954-rated)
- Safety Features: High conductivity aluminum alloy bus bars with tin coating, heat-shrink tube insulation, secure cable termination points

- Integration: Designed for internal installation with locks and terminal blocks, ready for short-circuit protection 2. Keshar Automation
 - Focus: LT (Low-Tension) Distribution Boxes for industrial, commercial, and residential applications
 - Features: Overload, short-circuit, and phase failure protection; user-friendly design; easy integration with PLC and SCADA systems
 - Compliance: Fully CPRI approved and meets international quality and safety standards
 - Customization: Voltage, current, and operational parameters can be tailored to client requirements 3. Schneider Electric Saudi Arabia
 - Products: Low-voltage switchgear, panel boards, enclosures, and circuit breakers
 - Capabilities: IoT-connected solutions for monitoring, diagnostics, and remote control; IEC 60364-compliant installations
 - Applications: Buildings, critical facilities, and industrial setups requiring safe and reliable low-voltage distribution 4. Safwah Factory for Electrical Industries (SFEI)
 - Products: Main Distribution Boards (Form-2 and Form-4), Sub-main Distribution Boards, Final Distribution Boards
 - Enclosures: UL/ASTA certified or Schneider Electric systems; indoor/outdoor IPXX-rated
 - Customization: Control for lighting, pumps, motors; stainless steel or RAL 7032/7035 color options
 - Additional Features: Power factor correction with capacitor banks up to 1000 KVAR, harmonic filtration, Automatic/Manual Transfer Switches (ATS/MTS)
 - Compliance: Designed to meet SEC requirements and local energy efficiency standards
- SEC Standards and Specifications
- 31-SDMS-07C: Low-voltage distribution panels with aluminum bus bars, main circuit breaker, and 300A outgoing MCCBs
 - 51-SDMS-03: Distribution transformers up to 36 kV, 400/230V with aluminum windings
 - 37-SDMS-03: Molded case circuit breakers for low-voltage PMT cabinets
 - Integration: Unit substations combine power transformers and LV distribution panels in transportable units ready for connection to the SEC network
- Summary

Saudi Arabia's low-voltage distribution boxes are designed for high reliability, safety, and compliance with SEC and international standards. They cover a wide range of current ratings (300A–4000A), voltage configurations (230/133V, 400/230V), and short-circuit capacities (up to 85kA). Manufacturers like ATC, Keshor Automation, Schneider Electric, and SFEI provide both standard and customizable solutions suitable for industrial, commercial, and residential applications, with options for PLC/SCADA integration, power factor correction, and outdoor durability.

Article Content

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31-SDMS-09 REV

4.8.7 Voltage circuit shall be protected with a 3 pole MCB, 10 A and comply with DES-P03 requirements, the CT terminal blocks shall

Saudi Arabia's Top LT Distribution Box Manufacturer & Exporter

We specialize in manufacturing CPRI approved LT Distribution Box in Saudi Arabia that deliver exceptional reliability, safety, and

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These LT Distribution Boxes are designed to ensure the safe and efficient distribution of electrical power, minimizing risks and

Low Voltage Electrical Distribution Products | Schneider Electric Saudi ...

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31-2.1 Current-carrying conductors depending on kind of current 44

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1.0 SCOPE This SEC Distribution Material Specification (SDMS) specifies the minimum technical requirements for design, materials,

Enclosures and Accessories | Schneider Electric Saudi

PanelSeT Steel enclosures ensure robust protection against dust, splashes, mechanical impacts... Your

LV Distribution Panel Specification

SEC specification for low voltage distribution panels without outgoing circuit breakers. Design, materials, testing requirements for

Design Guide for Saudi Arabia: Electrical

This document aims at establishing the minimum design standards for the design of electrical systems for

Distribution materials specification

Find comprehensive specifications for distribution materials used in the Saudi Electricity Company's network, including design,

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56-SDMS-09 Rev

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Circuit Breakers and Switches | Schneider Electric Saudi Arabia KSA

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Saudi Arabia Low Voltage Distribution Systems

Pricing for low voltage distribution systems in Saudi Arabia exhibits significant dispersion across brand tiers and

Distribution materials specification-construction standard for overhead ...

This page provides construction standards and material specifications for overhead lines used in distribution systems.

Saudi Energy

Saudi Energy plays a vital role by supplying the Kingdom with energy according to the highest reliability standards. The company is

Saudi Powertec

With a 2800 square meter facility in Riyadh, Saudi Powertec's commitment is to develop, manufacture, and deliver low and medium

Switchgear and Panelboard

The Switchgear Division (SD) houses engineering experts who manufacture a full range of Low Voltage and Medium Voltage

Part9

1- 13.8KV ROOM SUBSTATION WITH SINGLE TRANSFORMER 2- 33KV ROOM SUBSTATION WITH SINGLE TRANSFORMER

Distribution materials specification-construction standard for ...

Provides construction standards and specifications for materials used in underground distribution networks.

Saudi Electricity company

Literature (specifications, manuals, brochures, drawings and Schedules) of the following materials, as a minimum, but not limited to:

LV Distribution Panel Boards – Industrial Power Units for Industry,

IPU SA's Low Voltage (LV) Distribution Panel Boards serve as the backbone of electrical distribution in commercial, industrial, and

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SINGLE / DUAL LOW VOLTAGE DISTRIBUTION PANEL This document contains proprietary information developed by and for

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From circuit breakers and buses to enclosures, panel boards and switchboards, we offer a full range of safe, reliable solutions for low

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Six product groups documented in the current profile cover distribution, lighting, motor control, source transfer, power-factor

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UTEC Low Voltage Products & Systems

These meticulously designed MCCs, crafted in partnership with Schneider Electric and manufactured by UTEC, bring together

Standard Low-Voltage Distribution Board – Alawal

Download brochures and technical specifications for detailed information on our LVDBs.

Mini Pillar – Alkhalefah Electric

The low-voltage distribution pillar (mini-pillar) is an outdoor electrical distribution unit housed in a steel cabinet, used by the Saudi

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Project-Specific Electrical Distribution & Control Solutions Saudi Boards designs and manufactures low-voltage electrical distribution

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

