# Saudi Arabia Lighting Distribution Box Model Parameters



## Overview

Saudi Arabia Lighting Distribution Box Model ParametersCustom Power Distribution Box for Remote Construction Sites in Saudi Arabia Traditional off-the-shel.

## Key Takeaways

Lighting distribution boxes in Saudi Arabia must comply with local electrical standards, environmental conditions, and enclosure specifications, including temperature ranges, luminaire lifetime, and efficacy requirements.

### Enclosure Types and Models

Lighting distribution boxes are typically available in wall-mounted, floor-standing, and modular configurations to suit different applications. Common models include: PanelSeT SBX – Small industrial box-like enclosures for compact installations. PanelSeT S3X – Wall-mounted, compact enclosures for minimal space usage.

PanelSeT SMX – Floor-standing monobloc enclosures for high-performance panels. PanelSeT SFX – Large, configurable floor-standing enclosures for complex distribution systems. These enclosures are made from steel, stainless steel, or high-performance plastics and may include ventilation, heating resistances, and cable management accessories to ensure safe operation in industrial and commercial environments.

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## Operating and Environmental Parameters

According to Saudi Aramco Engineering Standards (SAES-M-005): Ambient Temperature: The average temperature of air around the luminaire, expressed in °C. Operating Temperature Range: The temperature range within which the luminaire or distribution box can safely operate, expressed in °C. Humidity Considerations: Heating resistances may be required to prevent condensation, ideally maintaining relative humidity below 60%.

## Lighting Performance Parameters

Luminaire Lifetime: Defined as the period during which 70% of the initial luminous flux is maintained, expressed in hours. Lumen Maintenance: The percentage of initial luminous flux retained over time, indicating depreciation or lumen loss. Luminaire Efficacy: The ratio of luminous flux emitted to power consumed, expressed in lumens per watt (lm/W), ensuring energy-efficient operation.

## Compliance and Standards

Lighting distribution boxes must adhere to: Saudi Aramco Engineering Standards (SAES) for industrial and commercial lighting installations. Local electrical codes and regulations as outlined by the Saudi Electricity Regulatory Authority (SERA) to ensure safety and quality.

## IESN

A Lighting Ready Reference / Energy Management IESNA RR-96 for optimizing energy utilization in interior and exterior lighting.

## Additional Considerations

Customization: Enclosures can be tailored for specific applications, including seismic, EMC, ATEX, or HMI requirements. Integration: Modern lighting distribution boxes may integrate with low-voltage switchgear, automation, and building management systems for enhanced control and monitoring. By selecting the appropriate enclosure model, considering environmental conditions, and adhering to Saudi standards, engineers can ensure safe, efficient, and durable lighting distribution systems in Saudi Arabia.

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31-SDMS-07C

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56-SDMS-07C

SCOPE This SEC Distribution Material Specification requirements of design, engineering, manufacturing, inspection; testing and performance of outdoor unit substation intended to be used in

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6Wresearch actively monitors the Saudi Arabia Lighting and Distribution Panel Board Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue

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