

Sierra Leone Electricity Meter Distribution Box



AI Overview

Electricity meter distribution boxes in Sierra Leone are managed primarily by EDSA and include both above-ground and underground configurations with standardized technical specifications.

Overview of Electricity Distribution in Sierra Leone

The Electricity Distribution and Supply Authority (EDSA) is responsible for the supply, distribution, and retail sale of electricity across Sierra Leone, except in areas licensed to other entities. EDSA oversees the installation and maintenance of electricity meter distribution boxes to ensure safe, reliable, and affordable electricity delivery to residential, commercial, and industrial consumers. The unbundling of the former National Power Authority in 2011 created EDSA, which now manages distribution infrastructure including meter boxes.

Types of Distribution Boxes

Distribution boxes in Sierra Leone can be categorized as:

- Above-ground distribution boxes:** Typically used for residential and commercial connections, these boxes house electricity meters, fuses, and circuit breakers.
- Underground box transformers:** These are prefabricated pit units designed for higher-capacity connections and urban areas. They include corrosion-resistant stainless steel shells, reinforced concrete pits, and high-voltage switchgear rated for 10–12kV with low-voltage outputs of 0.4kV. Capacities range from 30 to 1000 kVA, three-phase, 50Hz, with IP68 protection and noise levels ≤ 50 dB.

Technical Specifications

Key technical parameters for underground distribution boxes include:

- Rated voltage:** High voltage 10–12kV, low voltage 0.4kV
- Rated current:** 630A
- Short-circuit withstand:** 20kA/2s, peak 50kV
- Insulation levels:** Primary side withstand voltage 35kV (power frequency), impulse 75kV; secondary side 5kV
- Construction:** Integral corrosion-resistant shell, reinforced concrete pit ≥ 150 mm thick, precast cement slab cover with inspection hole
- Environmental tolerance:** Daily...

Article Content

APPROVED TARIFF BY SIERRA LEONE ELECTRICITY AND

APPROVED TARIFF BY SIERRA LEONE ELECTRICITY AND WATER REGULATORY COMMISSION FOR ELECTRICITY DISTRIBUTION AND SUPPLY AUTHORITY (EDSA) EFFECTIVE 1st. October

Electricity Regulations, Codes and Standards – Sierra Leone

Sierra Leone Electricity & Water Regulatory Commission The Commission is often seen as “balancing” of interests of its stakeholders through the protection of consumers from unfair treatment by utilities,

EDSA Announces Mandatory Prepaid Meter Upgrade

The Electricity Distribution and Supply Authority (EDSA) has initiated a mandatory upgrade for all consumers utilising prepaid meters, starting from

EDSA Launches Free Meter Upgrade Campaign

Freetown, SIERRA LEONE — The Electricity Distribution and Supply Authority (EDSA) has announced a free meter upgrade initiative for its customers, with a deadline set for October 30,

Sierra Leone Circuit Distribution Box Configuration Parameters

Sierra Leone power strips and PDU power distribution units for surface mount, rack mount and general purpose applications. Multiple outlet power strips are manufactured in accordance to Sierra Leone

Electricity Distribution and Supply Authority (EDSA)

The Electricity Distribution and Supply Authority (EDSA) was founded after the unbundling of the National Power Authority (NPA) in late 2014. EDSA is responsible for the distribution and supply of

PEC Sierra Leone Limited

The Sierra Leone homepage allows energy and water consumers to access Utility Management, Remote Metering, Advanced Metering, Prepaid Metering, Energy Management, Consumer Accounts,

Meter Board In Sierra Leone

We have an in-house manufacturing unit where we design products with utmost precision. We use cut-edge tools and modern machinery to manufacture premium quality Electrical Panels, LT Distribution

EDSA Announces Mandatory Prepaid Meter Upgrade

This upgrade is part of a broader effort to improve the reliability and transparency of the electricity distribution system in Sierra Leone. For continuous

Sierra Leone

The survey shows that nationwide 21.1% of Sierra Leone households have access to electricity via the national grid (20.5%) or mini-grids (0.6%) and 14.7% have off-grid .

Fact-Checked on iVerify Sierra Leone: Yes, the Electricity Distribution ...

Yes, the Electricity Distribution and Supply Authority (EDSA) has announced that all electricity consumers must upgrade their prepaid meters before October 30, 2024.

Non-upgraded

Addressing Systemic Electricity Distribution and Supply Issues in ...

The Ministry of Finance is a Key arm of the Government of Sierra Leone mandated to formulate and implement sound economic policies and public financial management, ensure efficient

Sierra Leone Electricity & Water Regulatory Commission

To regulate the provision of the highest quality of electricity and water services as provided for by the Sierra Leone Electricity, Water and Sanitation Regulatory

Sierra Leone ministry deploys prepaid meters

Sierra Leone to deploy prepaid meters across the country to ensure a reliable and affordable electricity supply. On Tuesday, the Sierra Leone Ministry of Energy and Energy

World Bank Document

Original Development Objective (Approved as part of Approval package on 27-Jan-2021) The Project Development Objective is to increase electricity access in Sierra Leone.

EDSA Rolls Out Low-Cost Electricity Meter Installation In Waterloo

Under the new scheme, customers will receive free electricity meters, but will be required to pay a mandatory installation fee of NLe 1,500 for a single-phase meter and NLe 2,500 for a three

ELECTRICITY DISTRIBUTION AND SUPPLY AUTHORITY

ELECTRICITY DISTRIBUTION AND SUPPLY AUTHORITY. Address: Electricity House 5A, High Broad Street, Murray Town Road Freetown Sierra Leone. NAICS: 22; 2211; 221. SIC: 49 ...

Meter Board In Sierra Leone

We use cut-edge tools and modern machinery to manufacture premium quality Electrical Panels, LT Distribution Panels, Cable Bus Ducts, Power Generators, and Electrical Transformers in Sierra Leone.

EDSA Delivers Affordable Electricity Meters Nationwide

The move, which took effect on 3rd December 2025, aims to make meters more affordable, reduce illegal sales, and improve access to electricity

Sierra Leone Circuit Distribution Box Configuration Parameters

Learn what an electrical distribution box (DB/distribution board) is, its main components (MCB/RCCB/RCBO, SPD, busbar) and common types.

Grid Code for Sierra Leone Electricity Market

Regulatory Context as Per Roadmap for Reform of Electricity Sector The National Electricity Act of 2011 and The Sierra Leone Electricity and Water Regulatory Commission Act of 2011 provide the basis for

Voltage in Sierra Leone

With a more financially-viable electricity sector they hope the sector will be more appealing to much needed private investors. In order to improve the current situation and to encourage

EDSA Launches Upgrading of Meter System

In conclusion, the EDSA meter upgrade exercise is a crucial step towards improving the efficiency and reliability of electricity distribution in Sierra Leone. Customers are encouraged to

STATUTORY INSTRUMENT

CERTIFICATION OF ELECTRICITY METERING SERVICES PROVIDERS RULES 2019 Short title. In exercise of the powers conferred upon it by section 66 of the Interpreta-Sierra Leone Electricity and

Sierra Leone

Sierra Leone's energy sector offers diverse investment opportunities across hydropower, solar, wind, thermal, biomass, and off-grid solutions. With much of the population, particularly in rural

Sierra Leone Circuit Distribution Box Configuration Parameters

6Wresearch actively monitors the Sierra Leone Commercial Vehicle Electric Power Distribution Box Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers,

Contact Us

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