

Article Overview

Emergency lighting distribution boxes in South Sudan should provide reliable power for at least 3 hours, comply with international standards, and include robust circuit protection and user-friendly installation features.

Key Specifications

1. Power Supply and Duration Emergency lighting distribution boxes must ensure continuous operation for a minimum of 3 hours during mains failure, powered by either the main grid or backup generators/batteries . The system should support all exit signs, doors, stairways, corridors, and control rooms. 2. Load Center Design Distribution boxes (load centers) should be robust, compact, and weatherproof for indoor or semi-outdoor use. They must include:

- o Circuit breakers (MCB or MCCB) compliant with IEC standards for overload and short-circuit protection .
 - o Busbar chambers for safe and organized power distribution.
 - o Dedicated outlets for portable equipment, hand tools, and fixed emergency luminaires .
 - o Optimized size and cable management for easy installation and maintenance .
3. Luminaires and Illumination Requirements

- o Color temperature: 3500-5500 Kelvin with a color rendering index (CRI) of ~95 .
- o Uniformity ratio (average to minimum illuminance) ≥ 0.8 .
- o Illumination levels should follow Illuminating Engineers Society (IES) recommendations and EN1838 standards for escape lighting .

o Luminaires should be mounted at 1.5 meters above finished floor for walkways and stairways .

4. Safety and Compliance

- o Emergency lighting systems should comply with EN 50171 for central power supply units and BS5266/EN1838 for illumination and escape lighting .
- o Third-party certification (e.g., BSI Kitemark, ICEL registration) is recommended to ensure reliability and compliance .

o Switches and isolators must be clearly labeled and accessible for maintenance and testing .

5. Installation and Maintenance

- o Boxes should allow easy wire routing, identification, and maintenance.
 - o Provision for multiple access points for walkways and stairways.
 - o Regular inspection and testing are required to ensure operational readiness .
6. Environmental Considerations

- o Materials should be durable and resistant to dust, moisture, and heat, suitable for South Sudan's climate.
 - o Systems should be designed to accommodate diesel generator backup if grid reliability is limited .
- By following these specifications, emergency lighting distribution boxes in South Sudan can provide safe,



South Sudan Emergency Lighting Distribution Box Specifications

reliable, and compliant illumination during power outages, ensuring effective evacuation and operational safety.

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The report identifies urgent infrastructure investments of \$50.32 million needed to upgrade Juba's electrical distribution. Capacity

C. Supply, deliver, offload, install, test and commissioning 400V and 230V distribution boards as per the Single Line Diagrams.

Electric Light Dimmers Tubular Fluorescent Lamps Screwed Metal Conduit Wall Outlet Boxes. Contactors Interior Luminaries for

Emergency lighting must be provided in all generator engine rooms, control rooms, distribution rooms, and switch rooms, as well as

The lighting system provided shall be in compliance with the Regulations, Codes and Standards and comprise normal,

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This Lighting Guide replaces the 2004 edition of LG12 titled "Emergency Lighting Design Guide". Contents: Preface 1 Introduction 2

5) The distribution cabinet should be preferably of IP-55 protective category, with provision for lighting inside the cabinet. Purchaser's

With 12 ways for electrical connections, an IP67 rating, and dimensions of 300mm x 230mm x 290mm, this distribution box provides

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Emergency lighting system power distribution box and device installation (1) Emergency lighting power distribution boxes and



South Sudan Emergency Lighting Distribution Box Specifications

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The production points of emergency lighting distribution box are as follows: 1. The energy distribution system in the construction site

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