Specifications of Indian Emergency Lighting Distribution Boxes



Overview

Distribution Board Specifications | PDF | Electrical Connector. This document outlines the specifications for the supply of lighting and power distribut.

Key Takeaways

Indian Emergency Lighting Distribution Boxes are typically fabricated from 2 mm GI sheet, designed for outdoor use, with IP-55 protection, busbar arrangements, MCCB provisions, and solid earthing points.

Construction and Material

Body Material: Fabricated from 2 mm galvanized iron (GI) sheet with reinforced channels for structural strength. Roof Design: Slightly slanting with 50 mm overhang at front and back to prevent water ingress. Doors and Hinges: Doors equipped with Godrej-type 3-position locking system; hinges are concealed for security and aesthetics.

Sealing: Rubber gaskets between doors and base ensure dust and water ingress protection.

Electrical Features

Voltage Rating: Typically 415V AC for emergency lighting circuits. Busbars: EC grade aluminum busbars with adequate clearance from the box body; sizes vary depending on capacity (e.g., 72x50x8 mm for 63/100 KVA, 112x50x15 mm for 160/315 KVA),.

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Incoming/

Outgoing Feeders: Provision for one busbar arrangement with 4-pole MCCB for all LTDB capacities and outgoing feeders with 2 sets of 3-pole MCCBs. Cables: Multicore armored power and control cables, with sizes ranging from 2-core 6 sq.mm to 1-core 630 sq.mm XLPE/Aluminum.

Protection and Safety

Ingress Protection: IP-55 degree of protection, ensuring resistance to dust and water. Earthing: Two solid earthing points on either side of the box; GI flats (75x8 mm and 50x6 mm) used for earthing. Isolators and Cutouts: Porcelain cutouts for outgoing circuits; isolators with arc-chutes to extinguish arcs immediately, rated for 80 kA breaking capacity.

Standards and ComplianceBIS Standards: Emergency lighting units and distribution boxes conform to IS 9583: 1981 and relevant IEC standards for emergency luminaires. Testing: Type test certificates for IP-55 protection and electrical performance from CPRI or government-approved laboratories are required.

Additional Features

Outdoor Suitability: Designed for outdoor installation with corrosion-resistant finishes. Maintenance: Provision for easy access to busbars and MCCBs for inspection and maintenance. Flexibility: Can accommodate combined emergency luminaires (maintained or non-maintained) and self-contained or centrally supplied systems.

These specifications ensure that Indian Emergency Lighting Distribution Boxes are robust, safe, and compliant with national standards, suitable for industrial, commercial, and high-voltage substation applications.

Article Content

Distribution Board Specifications | PDF | Electrical Connector ...

This document outlines the specifications for the supply of lighting and power distribution boards, including technical requirements and compliance with Indian standards.

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They are customized as per industry specific user requirements. It usually comprises of Isolation/Lighting Transformer for incoming supply and MCCBs/SFUs in the

Low Voltage Emergency Light Distribution Box

Key words: Emergency Lighting Distribution Box Classification: Emergency Lighting Distribution Box

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ILLUMINATION SYSTEM

The lighting panels of the system will be connected to the Emergency lighting distribution board (ELDB), which is fed from diesel generator during the emergency.

Substation Lighting Technical Specification | PDF | Electrical Wiring ...

This document provides the technical specifications for substation lighting at new and existing substations of the West Bengal State Electricity Transmission Company Limited.

TECHNICAL SPECIFICATION FOR LT DISTRIBUTION BOX

General Technical Particulars for LT Distribution Boxes : - The L.T. Distribution Boxes should be of the dimensions as per the drawing & details in the table furnished.

Indian Standard: SPECIFICATION FOR EMERGENCY LIGHTING

The emergency lighting units covered in this standard are suitable for providing the emergency lighting between 1 to 3 hours duration and employ automatic switching on/off devices in the event of failure/

Specification for AC Lighting Power, DC Lighting and AC Power ...

4.7 EARTH BUS All above components as per SPECIFICATION FOR FLAMEPROOF LIGHTING AND POWER PANELS, Doc No: 6-51-0008 Rev. 6

Section -LIGHTING SYSTEM (Rev.07)

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The lighting panels of this system will be connect ed to the 415 V Emergency lighting distribution board (ELDB) which is fed from diesel generator during the emergency.

TECHNICAL SPECIFICATION FOR DISTRIBUTION BOARDS & LIGHTING

NATIONAL THERMAL POWER CORPORATION LIMITED 3X800MW PATRATU TPS TECHNICAL SPECIFICATION FOR DISTRIBUTION BOARDS & LIGHTING PANELS SPECIFICATION NO: PE

IS 9583 (1981): Emergency lighting units

Indian Standard SPECIFICATION FOR EMERGENCY LIGHTING UNITS 0. FOREWORD 0.1 This Indian Standard was adopted by the Indian Standards Institution on 23 January 1981, after

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

Indian Standard

Indian Standard SPECIFICATION FOR EMERGENCY LIGHTING UNITS 1.1 This standard covers the requirements and methods of tests for emergency lighting units fitted with incandescent, fluorescent

SPECIFICATION OF EMERGENCY LIGHTING AND ACCESSORIES

System must have Battery charging arrangement with AC power source input and with DC power source input with necessary cables

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Technical inquiry: https://bagyou.es/project-enquiry.html

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

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