

Article Overview

Fire-rated power distribution boxes, such as the OBO FireBox and LifeSafety Power D8P modules, provide reliable electrical distribution during fire emergencies with tested fire resistance and secure terminal connections.

Overview

A fire power distribution box is a specialized electrical enclosure designed to maintain power supply to critical systems during a fire. These boxes ensure that essential equipment, such as fire alarms, emergency lighting, and egress locks, continue to operate for a specified period, complying with local fire safety regulations and construction standards .

Key Models and Features

1. OBO FireBox Series

- o Fire Resistance: Tested according to DIN 4102 Part 12, with classes E30, E60, and E90, meaning they maintain electrical function for 30, 60, or 90 minutes during a fire .
- o Construction: Halogen-free thermoplastic housing combined with high-temperature-resistant ceramic terminal blocks to prevent toxic gas release and ensure mechanical and electrical reliability .
- o Variants:
 - o T100: Supports cable cross-sections up to 6 mm²
 - o T160: Supports up to 10 mm²
 - o T250: Supports up to 16 mm²
 - o T350: Empty variant for flexible equipment installation

- o Protection Rating: IP66, suitable for harsh environments

- o Mounting Options: Front or rear cable support system mounting with universal plates . 2. LifeSafety Power D8P-BOXED Module

- o Outputs: 8 protected DC outputs, programmable for continuous voltage or fire alarm response .

- o Dual Voltage Capability: Each output can be set to one of two voltages, with options for failsafe, failsecure, and FAI programming .

- o Applications: Access control systems, door holder power in fire systems, and emergency lock control . 3.

General Distribution Boxes

- o Used to safely distribute electrical power to multiple circuits in residential, commercial, and industrial settings .

- o Can include circuit breakers, fuses, busbars, and terminals for overload protection .

- o Available in indoor and outdoor variants, with metal or thermoplastic enclosures depending on



Fire Power Distribution Box Model

environmental requirements .

Applications

Fire power distribution boxes are critical in:

- o Emergency systems: Fire alarms, emergency lighting, and egress locks
- o Industrial and commercial buildings: Ensuring continuity of power to safety-critical equipment
- o Infrastructure projects: Maintaining electrical function in tunnels, utility rooms, and monitored areas during fire events

Summary

When selecting a fire power distribution box, consider:

- o Fire resistance rating (E30, E60, E90)
- o Terminal type and cable capacity
- o Programmable outputs for emergency systems
- o Housing material and IP protection rating
- o Compliance with local fire safety regulations Models like the OBO FireBox and LifeSafety Power D8P provide tested, reliable solutions for maintaining electrical function during fire emergencies, ensuring safety and regulatory compliance .

The FlexPower F8 module is a Fire Alarm Interrupt (FAI) controlled distribution accessory that provides eight zones of fused or PTC

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7) Considerations for choosing a power distribution box The context, security needs, and

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This box is specially designed for fire protection scenarios, providing comprehensive protection for fire protection-related circuit

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