

Configuration of Intelligent Power Distribution Cabinets in Latvia



Overview

INTRAL thanks to significant investments in equipment, selection and training of engineers, INTRAL is the largest manufacturer of power distribution.

Key Takeaways

Intelligent power distribution cabinets in Latvia are designed to combine energy distribution, protection, monitoring, and automation, built according to IEC 61439 standards and EU directives.

Intelligent power distribution cabinets (PDCs) in Latvia are used to supply, redistribute, and protect electrical energy while integrating monitoring and automation features for industrial, commercial, and smart-building applications. They are typically floor-standing or wall-mounted and can include main switches, individual circuit breakers, power meters, and indicator lamps for operational visualization.

Key Components and Features

- **Main and Group Switches:** Allow complete or selective disconnection of electrical circuits for safety and maintenance.
- **Power Monitoring:** Cabinets can be equipped with energy meters to track consumption and optimize efficiency.
- **Automation and Control:** Advanced cabinets integrate PLC logic, HMI screens, SCADA dashboards, and OPC-UA connectivity, enabling remote monitoring, predictive maintenance, and real-time diagnostics.

- Thermal and Electrical Protection: Overload and short-circuit protection devices are standard, ensuring safe operation of connected equipment .
- Modular Design: Cabinets are often modular, allowing customization for specific project requirements, including HVAC, lighting, access control, and energy management systems .

Standards and Compliance

Latvian manufacturers build cabinets in compliance with IEC 61439 and EU directives such as the Low Voltage Directive 2014/35/EU and Electromagnetic Compatibility Directive 2014/30/EU . Cabinets are CE-marked and tested for safety, reliability, and performance, ensuring suitability for both local and international projects .

Local Manufacturers and Providers

- INTRA-EL: Offers a wide range of PDCs from simple to complex high-capacity solutions, with international export experience to 18 countries .
- MC Communication: Specializes in smart-building automation panels, integrating energy, lighting, HVAC, and security systems with remote diagnostics and 24/7 support .
- Irbis Technology: Provides standard and customized distribution cabinets with flexible configurations for industrial and residential applications .
- ELDI: Produces bespoke distribution boxes and automation cabinets, ensuring compliance with EU standards and providing full documentation and CE marking .

Applications

Intelligent PDCs in Latvia are widely used in:

- Industrial facilities: High-capacity factories requiring reliable power distribution and monitoring .
- Commercial buildings: Offices, shopping centers, and data centers with integrated energy management and automation .
- Residential complexes: Modular cabinets for safe and efficient electricity distribution .

Summary

The configuration of intelligent power distribution cabinets in Latvia emphasizes safety, modularity, automation, and compliance with international standards. Local manufacturers provide solutions ranging from simple distribution panels to fully integrated smart-building systems, supporting energy monitoring, remote control, and predictive maintenance, making them suitable for diverse industrial, commercial, and residential applications .

Article Content

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Transformation and Application of Traditional Low Voltage

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A New Distributed Intelligent Distribution Ring Main Unit ...

In order to solve the problems such as insufficient perception ability of distribution equipment, low level of intelligence,

Distribution cabinet

Performance Features High power density: modular design, on-demand configuration, supports up to 150kVA Integrated design:

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