

Empowering Your Business with

Medium Voltage Systems



POWERING CONNECTIONS



Reliable Medium Voltage Distribution for Critical Networks

- ✓ Robust Medium Voltage Power Distribution: Design, supply, and installation of MV switchgear (e.g., Ring Main Units, Vacuum Circuit Breakers, Gas Insulated Switchgear) for primary and secondary distribution networks, ensuring reliable power delivery from 3.3kV to 36kV.
- ✓ Advanced Arc-Fault Containment: Implementation of passive and active arc-flash protection systems, including arc-resistant enclosures (IAC AFLR), rapid earthing switches, and arc-detection relays, to minimize the impact of internal arc faults and enhance personnel safety.
- ✓ Compact and Space-Saving Design: Utilization of modular and compact MV switchgear solutions, such as Gas Insulated Switchgear (GIS) or solid-insulated switchgear, to optimize substation footprint and facilitate installation in confined spaces or urban environments.
- ✓ Intelligent Monitoring and Control Capabilities: Integration of advanced protection and control relays (e.g., IEC 61850 compliant), remote terminal units (RTUs), and SCADA systems for real-time monitoring, fault localization, and remote operation, enhancing grid stability and operational efficiency.

Technical Specifications

Features	Specifications
✓ System Type	✓ Medium Voltage Switchgear (AIS, GIS, Hybrid)
✓ Rated Voltage	✓ 3.3kV to 36kV
✓ Rated Current	✓ Main Busbar: Up to 4000A; Feeder: Up to 2500A
✓ Short-Circuit Withstand	✓ Up to 50kA for 3 seconds (Icw)
✓ Insulation Medium	✓ Air, SF6 Gas, or Solid Dielectric
✓ Frequency	✓ 50/60 Hz
✓ Enclosure Protection	✓ IP4X (Indoor) to IP65 (Outdoor) as per IEC 60529
✓ Arc-Flash Classification	✓ Internal Arc Classified (IAC) AFLR up to 50kA/1s
✓ Switching Devices	✓ Vacuum Circuit Breakers (VCB), Load Break Switches (LBS), Disconnectors
✓ Protection Relays	✓ Digital Multifunction Relays (Overcurrent, Earth Fault, Differential, Distance) with IEC 61850 communication
✓ Compliance	✓ IEC 62271-200, IEC 60694, IEC 60298

Why Choose Us?

- 01.** Superior Protection and Safety: Our MV systems incorporate cutting-edge arc fault containment and rapid fault clearance mechanisms, providing unparalleled safety for operators and significantly reducing equipment damage and downtime in the event of an internal arc fault.
- 02.** Optimized Footprint and Installation: Leveraging compact and modular designs, including GIS technology, our solutions require minimal installation space and offer faster deployment times, making them ideal for urban substations and industrial facilities with space constraints.
- 03.** Intelligent and Reliable Operation: Equipped with advanced digital protection relays and integrated communication capabilities, our MV switchgear enables precise control, predictive maintenance, and seamless integration into smart grid architectures, ensuring maximum reliability and operational insights.

GET IN TOUCH WITH US